

SEQUENCE LISTING

<110> INCYTE PHARMACEUTICALS, INC.

HILLMAN, Jennifer L.

YUE, Henry

TANG, Y. Tom

LAL, Preeti

CORLEY, Neil C.

GUEGLER, Karl J.

BAUGHN, Mariah R.

AZIMZAI, Yalda

LU, Dyung Aina M.

<120> MEMBRANE TRANSPORT PROTEINS

<130> PF-0633 USN

<140> US 09/830,915

<141> 2001-05-01

<150> US 99/26048

<151> 1999-11-04

<150> US 60/121,896

<151> 1999-02-26

<150> US 60/172,214

<151> 1998-12-22

<150> US 60/172,252

<151> 1998-11-24

<150> US 60/172,255

<151> 1998-11-04

<160> 42

<170> PERL Program

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<211> 384

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 961344CD1

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Ser Ser His Leu Val Ser Arg Thr Gln Asp Ile His Ile Phe Arg

20 25 30

Gln Val Thr Ser Arg Gly Glu Ala His Leu Glu Leu Asn Ala Phe

				35					40					45
Arg	Arg	Lys	His	Asp	Cys	Ala	Leu	Val	Ile	Ser	Gly	Asp	Ser	Leu
				50					55					60
Glu	Val	Cys	Leu	Lys	Tyr	Tyr	Glu	His	Glu	Phe	Val	Glu	Leu	Ala
				65					70					75
Cys	Gln	Cys	Pro	Ala	Val	Val	Cys	Cys	Arg	Cys	Ser	Pro	Thr	Gln
				80					85					90
Lys	Ala	Arg	Ile	Val	Thr	Leu	Leu	Gln	Gln	His	Thr	Gly	Arg	Arg
				95					100					105
Thr	Cys	Ala	Ile	Gly	Asp	Gly	Gly	Asn	Asp	Val	Ser	Met	Ile	Gln
				110					115					120
Ala	Ala	Asp	Cys	Gly	Ile	Gly	Ile	Glu	Gly	Lys	Glu	Gly	Lys	Gln
				125					130					135
Ala	Ser	Leu	Ala	Ala	Asp	Phe	Ser	Ile	Thr	Gln	Phe	Arg	His	Ile
				140					145					150
Gly	Arg	Leu	Leu	Met	Val	His	Gly	Arg	Asn	Ser	Tyr	Lys	Arg	Ser
				155					160					165
Ala	Ala	Leu	Gly	Gln	Phe	Val	Met	His	Arg	Gly	Leu	Ile	Ile	Ser
				170					175					180
Thr	Met	Gln	Ala	Val	Phe	Ser	Ser	Val	Phe	Tyr	Phe	Ala	Ser	Val
				185					190					195
Pro	Leu	Tyr	Gln	Gly	Phe	Leu	Met	Val	Gly	Tyr	Ala	Thr	Ile	Tyr
				200					205					210
Thr	Met	Phe	Pro	Val	Phe	Ser	Leu	Val	Leu	Asp	Gln	Asp	Val	Lys
				215					220					225
Pro	Glu	Met	Ala	Met	Leu	Tyr	Pro	Glu	Leu	Tyr	Lys	Asp	Leu	Thr
				230					235					240
Lys	Gly	Arg	Ser	Leu	Ser	Phe	Lys	Thr	Phe	Leu	Ile	Trp	Val	Leu
				245					250					255
Ile	Ser	Ile	Tyr	Gln	Gly	Gly	Ile	Leu	Met	Tyr	Gly	Ala	Leu	Val
				260					265					270
Leu	Phe	Glu	Ser	Glu	Phe	Val	His	Val	Val	Ala	Ile	Ser	Phe	Thr
				275					280					285
Ala	Leu	Ile	Leu	Thr	Glu	Leu	Leu	Met	Val	Ala	Leu	Thr	Val	Arg
				290					295					300
Thr	Trp	His	Trp	Leu	Met	Val	Val	Ala	Glu	Phe	Leu	Ser	Leu	Gly
				305					310					315
Cys	Tyr	Val	Ser	Ser	Leu	Ala	Phe	Leu	Asn	Glu	Tyr	Phe	Gly	Ile
				320					325					330
Gly	Arg	Val	Ser	Phe	Gly	Ala	Phe	Leu	Asp	Val	Ala	Phe	Ile	Thr
				335					340					345
Thr	Val	Thr	Phe	Leu	Trp	Lys	Val	Ser	Ala	Ile	Thr	Val	Val	Ser
				350					355					360
Cys	Leu	Pro	Leu	Tyr	Val	Leu	Lys	Tyr	Leu	Arg	Arg	Lys	Leu	Ser
				365					370					375
Pro	Pro	Ser	Tyr	Cys	Lys	Leu	Ala	Ser						
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<211> 846

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3128782CD1

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Gly	Asp	Gly	Glu	Ser	Thr	Ser	Pro	Ser	Asp	Lys	Val	Val	Lys	Lys					
				20					25					30					
Gly	Lys	Lys	Asp	Lys	Lys	Ile	Lys	Lys	Thr	Phe	Phe	Glu	Glu	Leu					
				35					40					45					
Ala	Val	Glu	Asp	Lys	Gln	Ala	Gly	Glu	Glu	Glu	Lys	Val	Leu	Lys					
				50					55					60					
Glu	Lys	Glu	Gln	Gln	Gln	Gln	Gln	Gln	Gln	Gln	Gln	Gln	Gln	Lys					
				65					70					75					
Lys	Lys	Arg	Asp	Thr	Arg	Lys	Gly	Arg	Arg	Lys	Lys	Asp	Val	Asp					
				80					85					90					
Asp	Asp	Gly	Glu	Glu	Lys	Glu	Leu	Met	Glu	Arg	Leu	Lys	Lys	Leu					
				95					100					105					
Ser	Val	Pro	Thr	Ser	Asp	Glu	Glu	Asp	Glu	Val	Pro	Ala	Pro	Lys					
				110					115					120					
Pro	Arg	Gly	Gly	Lys	Lys	Thr	Lys	Gly	Gly	Asn	Val	Phe	Ala	Ala					
				125					130					135					
Leu	Ile	Gln	Asp	Gln	Ser	Glu	Glu	Glu	Glu	Glu	Glu	Glu	Lys	His					
				140					145					150					
Pro	Pro	Lys	Pro	Ala	Lys	Pro	Glu	Lys	Asn	Arg	Ile	Asn	Lys	Ala					
				155					160					165					
Val	Ser	Glu	Glu	Gln	Gln	Pro	Ala	Leu	Lys	Gly	Lys	Lys	Gly	Lys					
				170					175					180					
Glu	Glu	Lys	Ser	Lys	Gly	Lys	Ala	Lys	Pro	Gln	Asn	Lys	Phe	Ala					
				185					190					195					
Ala	Leu	Asp	Asn	Glu	Glu	Glu	Asp	Lys	Glu	Glu	Glu	Ile	Ile	Lys					
				200					205					210					
Glu	Lys	Glu	Pro	Pro	Lys	Gln	Gly	Lys	Glu	Lys	Ala	Lys	Lys	Ala					
				215					220					225					
Glu	Gln	Gly	Ser	Glu	Glu	Glu	Gly	Glu	Gly	Glu	Glu	Glu	Glu	Glu					
				230					235					240					
Glu	Gly	Gly	Glu	Ser	Lys	Ala	Asp	Asp	Pro	Tyr	Ala	His	Leu	Ser					
				245					250					255					
Lys	Lys	Glu	Lys	Lys	Lys	Leu	Lys	Lys	Gln	Met	Glu	Tyr	Glu	Arg					
				260					265					270					
Gln	Val	Ala	Ser	Leu	Lys	Ala	Ala	Asn	Ala	Ala	Glu	Asn	Asp	Phe					
				275					280					285					
Ser	Val	Ser	Gln	Ala	Glu	Met	Ser	Ser	Arg	Gln	Ala	Met	Leu	Glu					
				290					295					300					
Asn	Ala	Ser	Asp	Ile	Lys	Leu	Glu	Lys	Phe	Ser	Ile	Ser	Ala	His					
				305					310					315					
Gly	Lys	Glu	Leu	Phe	Val	Asn	Ala	Asp	Leu	Tyr	Ile	Val	Ala	Gly					
				320					325					330					
Arg	Arg	Tyr	Gly	Leu	Val	Gly	Pro	Asn	Gly	Lys	Gly	Lys	Thr	Thr					
				335					340					345					
Leu	Leu	Lys	His	Ile	Ala	Asn	Arg	Ala	Leu	Ser	Ile	Pro	Pro	Asn					
				350					355					360					
Ile	Asp	Val	Leu	Leu	Cys	Glu	Gln	Glu	Val	Val	Ala	Asp	Glu	Thr					
				365					370					375					

Pro	Ala	Val	Gln	Ala	Val	Leu	Arg	Ala	Asp	Thr	Lys	Arg	Leu	Lys	380	385	390
Leu	Leu	Glu	Glu	Glu	Arg	Arg	Leu	Gln	Gly	Gln	Leu	Glu	Gln	Gly	395	400	405
Asp	Asp	Thr	Ala	Ala	Glu	Arg	Leu	Glu	Lys	Val	Tyr	Glu	Glu	Leu	410	415	420
Arg	Ala	Thr	Gly	Ala	Ala	Ala	Ala	Glu	Ala	Lys	Ala	Arg	Arg	Ile	425	430	435
Leu	Ala	Gly	Leu	Gly	Phe	Asp	Pro	Glu	Met	Gln	Asn	Arg	Pro	Thr	440	445	450
Gln	Lys	Phe	Ser	Gly	Gly	Trp	Arg	Met	Arg	Val	Ser	Leu	Ala	Arg	455	460	465
Ala	Leu	Phe	Met	Glu	Pro	Thr	Leu	Leu	Met	Leu	Asp	Glu	Pro	Thr	470	475	480
Asn	His	Leu	Asp	Leu	Asn	Ala	Val	Ile	Trp	Leu	Asn	Asn	Tyr	Leu	485	490	495
Gln	Gly	Trp	Arg	Lys	Thr	Leu	Leu	Ile	Val	Ser	His	Asp	Gln	Gly	500	505	510
Phe	Leu	Asp	Asp	Val	Cys	Thr	Asp	Ile	Ile	His	Leu	Asp	Ala	Gln	515	520	525
Arg	Leu	His	Tyr	Tyr	Arg	Gly	Asn	Tyr	Met	Thr	Phe	Lys	Lys	Met	530	535	540
Tyr	Gln	Gln	Lys	Gln	Lys	Glu	Leu	Leu	Lys	Gln	Tyr	Glu	Lys	Gln	545	550	555
Glu	Lys	Lys	Leu	Lys	Glu	Leu	Lys	Ala	Gly	Gly	Lys	Ser	Thr	Lys	560	565	570
Gln	Ala	Glu	Lys	Gln	Thr	Lys	Glu	Ala	Leu	Thr	Arg	Lys	Gln	Gln	575	580	585
Lys	Cys	Arg	Arg	Lys	Asn	Gln	Asp	Glu	Glu	Ser	Gln	Glu	Ala	Pro	590	595	600
Glu	Leu	Leu	Lys	Arg	Pro	Lys	Glu	Tyr	Thr	Val	Arg	Phe	Thr	Phe	605	610	615
Pro	Asp	Pro	Pro	Pro	Leu	Ser	Pro	Pro	Val	Leu	Gly	Leu	His	Gly	620	625	630
Val	Thr	Phe	Gly	Tyr	Gln	Gly	Gln	Lys	Pro	Leu	Phe	Lys	Asn	Leu	635	640	645
Asp	Phe	Gly	Ile	Asp	Met	Asp	Ser	Arg	Ile	Cys	Ile	Val	Gly	Pro	650	655	660
Asn	Gly	Val	Gly	Lys	Ser	Thr	Leu	Leu	Leu	Leu	Leu	Thr	Gly	Lys	665	670	675
Leu	Thr	Pro	Thr	His	Gly	Glu	Met	Arg	Lys	Asn	His	Arg	Leu	Lys	680	685	690
Ile	Gly	Phe	Phe	Asn	Gln	Gln	Tyr	Ala	Glu	Gln	Leu	Arg	Met	Glu	695	700	705
Glu	Thr	Pro	Thr	Glu	Tyr	Leu	Gln	Arg	Gly	Phe	Asn	Leu	Pro	Tyr	710	715	720
Gln	Asp	Ala	Arg	Lys	Cys	Leu	Gly	Arg	Phe	Gly	Leu	Glu	Ser	His	725	730	735
Ala	His	Thr	Ile	Gln	Ile	Cys	Lys	Leu	Ser	Gly	Gly	Gln	Lys	Ala	740	745	750
Arg	Val	Val	Phe	Ala	Glu	Leu	Ala	Cys	Arg	Glu	Pro	Asp	Val	Leu	755	760	765
Ile	Leu	Asp	Glu	Pro	Thr	Asn	Asn	Leu	Asp	Ile	Glu	Ser	Ile	Asp	770	775	780
Ala	Leu	Gly	Glu	Ala	Ile	Asn	Glu	Tyr	Lys	Gly	Ala	Val	Ile	Val			

	785		790		795
Val Ser His Asp	Ala Arg Leu Ile Thr	Glu Thr Asn Cys Gln	Leu		
	800		805		810
Trp Val Val Glu	Glu Gln Ser Val Ser	Gln Ile Asp Gly Asp	Phe		
	815		820		825
Glu Asp Tyr Lys	Arg Glu Val Leu Glu	Ala Leu Gly Glu Val	Met		
	830		835		840
Val Ser Arg Pro	Arg Glu				
	845				

<210> 3

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<212> PRT

<213> Homo sapiens

<220>

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<223> Incyte ID No: 1720440CD1

<400> 3

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	20	25	30
Asp Ala Leu Leu	His Cys Leu Thr Thr	Ser Arg Ala Arg Ala	Leu
	35	40	45
Val Phe Gly Ser	Glu Met Ala Ser Ala	Ile Cys Glu Val His	Ala
	50	55	60
Ser Leu Asp Pro	Ser Leu Ser Leu Phe	Cys Ser Gly Ser Trp	Glu
	65	70	75
Pro Gly Ala Val	Pro Pro Ser Thr Glu	His Leu Asp Pro Leu	Leu
	80	85	90
Lys Asp Ala Pro	Lys His Leu Pro Ser	Cys Pro Asp Lys Gly	Phe
	95	100	105
Thr Asp Lys Leu	Phe Tyr Ile Tyr Thr	Ser Gly Thr Thr Gly	Leu
	110	115	120
Pro Lys Ala Ala	Ile Val Val His Ser	Arg Tyr Tyr Arg Met	Ala
	125	130	135
Ala Leu Val Tyr	Tyr Gly Phe Arg Met	Arg Pro Asn Asp Ile	Val
	140	145	150
Tyr Asp Cys Leu	Pro Leu Tyr His Ser	Ala Gly Asn Ile Val	Gly
	155	160	165
Ile Gly Gln Cys	Leu Leu His Gly Met	Thr Val Val Ile Arg	Lys
	170	175	180
Lys Phe Ser Ala	Ser Arg Phe Trp Asp	Asp Cys Ile Lys Tyr	Asn
	185	190	195
Cys Thr Ile Val	Gln Tyr Ile Gly Glu	Leu Cys Arg Tyr Leu	Leu
	200	205	210
Asn Gln Pro Pro	Arg Glu Ala Glu Asn	Gln His Gln Val Arg	Met
	215	220	225
Ala Leu Gly Asn	Gly Leu Arg Gln Ser	Ile Trp Thr Asn Phe	Ser
	230	235	240
Ser Arg Phe His	Ile Pro Gln Val Ala	Glu Phe Tyr Gly Ala	Thr
	245	250	255

Glu Cys Asn Cys Ser Leu Gly Asn Phe Asp Ser Gln Val Gly Ala	260	265	270
Cys Gly Phe Asn Ser Arg Ile Leu Ser Ser Val Tyr Pro Ile Arg	275	280	285
Leu Val Arg Val Asn Glu Asp Thr Met Glu Leu Ile Arg Gly Pro	290	295	300
Asp Gly Val Cys Ile Pro Cys Gln Pro Gly Glu Pro Gly Gln Leu	305	310	315
Val Gly Arg Ile Ile Gln Lys Asp Pro Leu Arg Arg Phe Asp Gly	320	325	330
Tyr Leu Asn Gln Gly Ala Asn Asn Lys Lys Ile Ala Lys Asp Val	335	340	345
Phe Lys Lys Gly Asp Gln Ala Tyr Leu Thr Gly Asp Val Leu Val	350	355	360
Met Asp Glu Leu Gly Tyr Leu Tyr Phe Arg Asp Arg Thr Gly Asp	365	370	375
Thr Phe Arg Trp Lys Gly Glu Asn Val Ser Thr Thr Glu Val Glu	380	385	390
Gly Thr Leu Ser Arg Leu Leu Asp Met Ala Asp Val Ala Val Tyr	395	400	405
Gly Val Glu Val Pro Gly Thr Glu Gly Arg Ala Gly Met Ala Ala	410	415	420
Val Ala Ser Pro Thr Gly Asn Cys Asp Leu Glu Arg Phe Ala Gln	425	430	435
Val Leu Glu Lys Glu Leu Pro Leu Tyr Ala Arg Pro Ile Phe Leu	440	445	450
Arg Leu Leu Pro Glu Leu His Lys Thr Gly Thr Tyr Lys Phe Gln	455	460	465
Lys Thr Glu Leu Arg Lys Glu Gly Phe Asp Pro Ala Ile Val Lys	470	475	480
Asp Pro Leu Phe Tyr Leu Asp Ala Gln Lys Gly Arg Tyr Val Pro	485	490	495
Leu Asp Gln Glu Ala Tyr Ser Arg Ile Gln Ala Gly Glu Glu Lys	500	505	510

Leu

<210> 4

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<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2274290CD1

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Pro Gly Arg Leu Leu Pro Pro Leu Arg Phe Gln Thr Phe Ser Ala	20	25	30	
Val Arg Tyr Ser Asp Gly Tyr Arg Ser Ser Ser Leu Leu Arg Ala	35	40	45	
Val Ala His Leu Arg Ser Gln Leu Trp Ala His Leu Pro Arg Ala	50	55	60	

Pro	Leu	Ala	Pro	Arg	Trp	Ser	Pro	Ser	Ala	Trp	Cys	Trp	Val	Gly
				65					70					75
Gly	Ala	Leu	Leu	Gly	Pro	Met	Val	Leu	Ser	Lys	His	Pro	His	Leu
				80					85					90
Cys	Leu	Val	Ala	Leu	Cys	Glu	Ala	Glu	Glu	Ala	Pro	Pro	Ala	Ser
				95					100					105
Ser	Thr	Pro	His	Val	Val	Gly	Ser	Arg	Phe	Asn	Trp	Lys	Leu	Phe
				110					115					120
Trp	Gln	Phe	Leu	His	Pro	His	Leu	Leu	Val	Leu	Gly	Val	Ala	Val
				125					130					135
Val	Leu	Ala	Leu	Gly	Ala	Ala	Leu	Val	Asn	Val	Gln	Ile	Pro	Leu
				140					145					150
Leu	Leu	Gly	Gln	Leu	Val	Glu	Val	Val	Ala	Lys	Tyr	Thr	Arg	Asp
				155					160					165
His	Val	Gly	Ser	Phe	Met	Thr	Glu	Ser	Gln	Asn	Leu	Ser	Thr	His
				170					175					180
Leu	Leu	Ile	Leu	Tyr	Gly	Val	Gln	Gly	Leu	Leu	Thr	Phe	Gly	Tyr
				185					190					195
Leu	Val	Leu	Leu	Ser	His	Val	Gly	Glu	Arg	Met	Ala	Val	Asp	Met
				200					205					210
Arg	Arg	Ala	Leu	Phe	Ser	Ser	Leu	Leu	Arg	Gln	Asp	Ile	Thr	Phe
				215					220					225
Phe	Asp	Ala	Asn	Lys	Thr	Gly	Gln	Leu	Val	Ser	Arg	Leu	Thr	Thr
				230					235					240
Asp	Val	Gln	Glu	Phe	Lys	Ser	Ser	Phe	Lys	Leu	Val	Ile	Ser	Gln
				245					250					255
Gly	Leu	Arg	Ser	Cys	Thr	Gln	Val	Ala	Gly	Cys	Leu	Val	Ser	Leu
				260					265					270
Ser	Met	Leu	Ser	Thr	Arg	Leu	Thr	Leu	Leu	Leu	Met	Val	Ala	Thr
				275					280					285
Pro	Ala	Leu	Met	Gly	Val	Gly	Thr	Leu	Met	Gly	Ser	Gly	Leu	Arg
				290					295					300
Lys	Leu	Ser	Arg	Gln	Cys	Gln	Glu	Gln	Ile	Ala	Arg	Ala	Met	Gly
				305					310					315
Val	Ala	Asp	Glu	Ala	Leu	Gly	Asn	Val	Arg	Thr	Val	Arg	Ala	Phe
				320					325					330
Ala	Met	Glu	Gln	Arg	Glu	Glu	Glu	Arg	Tyr	Gly	Ala	Glu	Leu	Glu
				335					340					345
Ala	Cys	Arg	Cys	Arg	Ala	Glu	Glu	Leu	Gly	Arg	Gly	Ile	Ala	Leu
				350					355					360
Phe	Gln	Gly	Leu	Ser	Asn	Ile	Ala	Phe	Asn	Cys	Met	Val	Leu	Gly
				365					370					375
Thr	Leu	Phe	Ile	Gly	Gly	Ser	Leu	Val	Ala	Gly	Gln	Gln	Leu	Thr
				380					385					390
Gly	Gly	Asp	Leu	Met	Ser	Phe	Leu	Val	Ala	Ser	Gln	Thr	Val	Gln
				395					400					405
Arg	Ser	Met	Ala	Asn	Leu	Ser	Val	Leu	Phe	Gly	Gln	Val	Val	Arg
				410					415					420
Gly	Leu	Ser	Ala	Gly	Ala	Arg	Val	Phe	Glu	Tyr	Met	Ala	Leu	Asn
				425					430					435
Pro	Cys	Ile	Pro	Leu	Ser	Gly	Gly	Cys	Cys	Val	Pro	Lys	Glu	Gln
				440					445					450
Leu	Arg	Gly	Ser	Val	Thr	Phe	Gln	Asn	Val	Cys	Phe	Ser	Tyr	Pro
				455					460					465
Cys	Arg	Pro	Gly	Phe	Glu	Val	Leu	Lys	Asp	Phe	Thr	Leu	Thr	Leu

	470		475		480									
Pro	Pro	Gly	Lys	Ile	Val	Ala	Leu	Val	Gly	Gln	Ser	Gly	Gly	Gly
	485		490		495									
Lys	Thr	Thr	Val	Ala	Ser	Leu	Leu	Glu	Arg	Phe	Tyr	Asp	Pro	Thr
	500		505		510									
Ala	Gly	Val	Val	Met	Leu	Asp	Gly	Arg	Asp	Leu	Arg	Thr	Leu	Asp
	515		520		525									
Pro	Ser	Trp	Leu	Arg	Gly	Gln	Val	Val	Gly	Phe	Ile	Ser	Gln	Glu
	530		535		540									
Pro	Val	Leu	Phe	Gly	Thr	Thr	Ile	Met	Glu	Asn	Ile	Arg	Phe	Gly
	545		550		555									
Lys	Leu	Glu	Ala	Ser	Asp	Glu	Glu	Val	Tyr	Thr	Ala	Ala	Arg	Glu
	560		565		570									
Ala	Asn	Ala	His	Glu	Phe	Ile	Thr	Ser	Phe	Pro	Glu	Gly	Tyr	Asn
	575		580		585									
Thr	Val	Val	Gly	Glu	Arg	Gly	Thr	Thr	Leu	Ser	Gly	Gly	Gln	Lys
	590		595		600									
Gln	Arg	Leu	Ala	Ile	Ala	Arg	Ala	Leu	Ile	Lys	Gln	Pro	Thr	Val
	605		610		615									
Leu	Ile	Leu	Asp	Glu	Ala	Thr	Ser	Ala	Leu	Asp	Ala	Glu	Ser	Glu
	620		625		630									
Arg	Val	Val	Gln	Glu	Ala	Leu	Asp	Arg	Ala	Ser	Ala	Gly	Arg	Thr
	635		640		645									
Val	Leu	Val	Ile	Ala	His	Arg	Leu	Ser	Thr	Val	Arg	Gly	Ala	His
	650		655		660									
Cys	Ile	Val	Val	Met	Ala	Asp	Gly	Arg	Val	Trp	Glu	Ala	Gly	Thr
	665		670		675									
His	Glu	Glu	Leu	Leu	Lys	Lys	Gly	Gly	Leu	Tyr	Ala	Glu	Leu	Ile
	680		685		690									
Arg	Arg	Gln	Ala	Leu	Asp	Ala	Pro	Arg	Thr	Ala	Ala	Pro	Pro	Pro
	695		700		705									
Lys	Lys	Pro	Glu	Gly	Pro	Arg	Ser	His	Gln	His	Lys	Ser		
	710		715											

<210> 5

<211> 635

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2740029CD1

<400> 5

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Gly	Thr	Ser	Val	Gly	Met	Ser	Thr	Phe	Ser	Ile	Met	Asp	Tyr	Val
				20					25					30
Val	Phe	Val	Leu	Leu	Leu	Val	Leu	Ser	Leu	Ala	Ile	Gly	Leu	Tyr
				35					40					45
His	Ala	Cys	Arg	Gly	Trp	Gly	Arg	His	Thr	Val	Gly	Glu	Leu	Leu
				50					55					60
Met	Ala	Asp	Arg	Lys	Met	Gly	Cys	Leu	Pro	Val	Ala	Leu	Ser	Leu
				65					70					75

Leu	Ala	Thr	Phe	Gln	Ser	Ala	Val	Ala	Ile	Leu	Gly	Val	Pro	Ser	80	85	90
Glu	Ile	Tyr	Arg	Phe	Gly	Thr	Gln	Tyr	Trp	Phe	Leu	Gly	Cys	Cys	95	100	105
Tyr	Phe	Leu	Gly	Leu	Leu	Ile	Pro	Ala	His	Ile	Phe	Ile	Pro	Val	110	115	120
Phe	Tyr	Arg	Leu	His	Leu	Thr	Ser	Ala	Tyr	Glu	Tyr	Leu	Glu	Leu	125	130	135
Arg	Phe	Asn	Lys	Thr	Val	Arg	Val	Cys	Gly	Thr	Val	Thr	Phe	Ile	140	145	150
Phe	Gln	Met	Val	Ile	Tyr	Met	Gly	Val	Val	Leu	Tyr	Ala	Pro	Ser	155	160	165
Leu	Ala	Leu	Asn	Ala	Val	Thr	Gly	Phe	Asp	Leu	Trp	Leu	Ser	Val	170	175	180
Leu	Ala	Leu	Gly	Ile	Val	Cys	Thr	Val	Tyr	Thr	Ala	Leu	Gly	Gly	185	190	195
Leu	Lys	Ala	Val	Ile	Trp	Thr	Asp	Val	Phe	Gln	Thr	Leu	Val	Met	200	205	210
Phe	Leu	Gly	Gln	Leu	Ala	Val	Ile	Ile	Val	Gly	Ser	Ala	Lys	Val	215	220	225
Gly	Gly	Leu	Gly	Arg	Val	Trp	Ala	Val	Ala	Ser	Gln	His	Gly	Arg	230	235	240
Ile	Ser	Gly	Phe	Glu	Leu	Asp	Pro	Asp	Pro	Phe	Val	Arg	His	Thr	245	250	255
Phe	Trp	Thr	Leu	Ala	Phe	Gly	Gly	Val	Phe	Met	Met	Leu	Ser	Leu	260	265	270
Tyr	Gly	Val	Asn	Gln	Ala	Gln	Val	Gln	Arg	Tyr	Leu	Ser	Ser	Arg	275	280	285
Thr	Glu	Lys	Ala	Ala	Val	Leu	Ser	Cys	Tyr	Ala	Val	Phe	Pro	Phe	290	295	300
Gln	Gln	Val	Ser	Leu	Cys	Val	Gly	Cys	Leu	Ile	Gly	Leu	Val	Met	305	310	315
Phe	Ala	Tyr	Tyr	Gln	Glu	Tyr	Pro	Met	Ser	Ile	Gln	Gln	Ala	Gln	320	325	330
Ala	Ala	Pro	Asp	Gln	Phe	Val	Leu	Tyr	Phe	Val	Met	Asp	Leu	Leu	335	340	345
Lys	Gly	Leu	Pro	Gly	Leu	Pro	Gly	Leu	Phe	Ile	Ala	Cys	Leu	Phe	350	355	360
Ser	Gly	Ser	Leu	Ser	Thr	Ile	Ser	Ser	Ala	Phe	Asn	Ser	Leu	Ala	365	370	375
Thr	Val	Thr	Met	Glu	Asp	Leu	Ile	Arg	Pro	Trp	Phe	Pro	Glu	Phe	380	385	390
Ser	Glu	Ala	Arg	Ala	Ile	Met	Leu	Ser	Arg	Gly	Leu	Ala	Phe	Gly	395	400	405
Tyr	Gly	Leu	Leu	Cys	Leu	Gly	Met	Ala	Tyr	Ile	Ser	Ser	Gln	Met	410	415	420
Gly	Pro	Val	Leu	Gln	Ala	Ala	Ile	Ser	Ile	Phe	Gly	Met	Val	Gly	425	430	435
Gly	Pro	Leu	Leu	Gly	Leu	Phe	Cys	Leu	Gly	Met	Phe	Phe	Pro	Cys	440	445	450
Ala	Asn	Pro	Pro	Gly	Ala	Val	Val	Gly	Leu	Leu	Ala	Gly	Leu	Val	455	460	465
Met	Ala	Phe	Trp	Ile	Gly	Ile	Gly	Ser	Ile	Val	Thr	Ser	Met	Gly	470	475	480
Ser	Ser	Met	Pro	Pro	Ser	Pro	Ser	Asn	Gly	Ser	Ser	Phe	Ser	Leu			

	485		490		495
Pro Thr Asn Leu Thr Val Ala Thr Val Thr Thr Leu Met Pro Leu					
	500		505		510
Thr Thr Phe Ser Lys Pro Thr Gly Leu Gln Arg Phe Tyr Ser Leu					
	515		520		525
Ser Tyr Leu Trp Tyr Ser Ala His Asn Ser Thr Thr Val Ile Val					
	530		535		540
Val Gly Leu Ile Val Ser Leu Leu Thr Gly Arg Met Arg Gly Arg					
	545		550		555
Ser Leu Asn Pro Ala Thr Ile Tyr Pro Val Leu Pro Lys Leu Leu					
	560		565		570
Ser Leu Leu Pro Leu Ser Cys Gln Lys Arg Leu His Cys Arg Ser					
	575		580		585
Tyr Gly Gln Asp His Leu Asp Thr Gly Leu Phe Pro Glu Lys Pro					
	590		595		600
Arg Asn Gly Val Leu Gly Asp Ser Arg Asp Lys Glu Ala Met Ala					
	605		610		615
Leu Asp Gly Thr Ala Tyr Gln Gly Ser Ser Ser Thr Cys Ile Leu					
	620		625		630
Gln Glu Thr Ser Leu					
	635				

<210> 6

<211> 535

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2414415CD1

<400> 6

Met Glu Glu Gly Ala Arg His Arg Asn Asn Thr Glu Lys Lys His					
1	5		10		15
Pro Gly Gly Gly Glu Ser Asp Ala Ser Pro Glu Ala Gly Ser Gly					
	20		25		30
Gly Gly Gly Val Ala Leu Lys Lys Glu Ile Gly Leu Val Ser Ala					
	35		40		45
Cys Gly Ile Ile Val Gly Asn Ile Ile Gly Ser Gly Ile Phe Val					
	50		55		60
Ser Pro Lys Gly Val Leu Glu Asn Ala Gly Ser Val Gly Leu Ala					
	65		70		75
Leu Ile Val Trp Ile Val Thr Gly Phe Ile Thr Val Val Gly Ala					
	80		85		90
Leu Cys Tyr Ala Glu Leu Gly Val Thr Ile Pro Lys Ser Gly Gly					
	95		100		105
Asp Tyr Ser Tyr Val Lys Asp Ile Phe Gly Gly Leu Ala Gly Phe					
	110		115		120
Leu Arg Leu Trp Ile Ala Val Leu Val Ile Tyr Pro Thr Asn Gln					
	125		130		135
Ala Val Ile Ala Leu Thr Phe Ser Asn Tyr Val Leu Gln Pro Leu					
	140		145		150
Phe Pro Thr Cys Phe Pro Pro Glu Ser Gly Leu Arg Leu Leu Ala					
	155		160		165

Ala	Ile	Cys	Leu	Leu	Leu	Leu	Thr	Trp	Val	Asn	Cys	Ser	Ser	Val	170	175	180
Arg	Trp	Ala	Thr	Arg	Val	Gln	Asp	Ile	Phe	Thr	Ala	Gly	Lys	Leu	185	190	195
Leu	Ala	Leu	Ala	Leu	Ile	Ile	Ile	Met	Gly	Ile	Val	Gln	Ile	Cys	200	205	210
Lys	Gly	Glu	Tyr	Phe	Trp	Leu	Glu	Pro	Lys	Asn	Ala	Phe	Glu	Asn	215	220	225
Phe	Gln	Glu	Pro	Asp	Ile	Gly	Leu	Val	Ala	Leu	Ala	Phe	Leu	Gln	230	235	240
Gly	Ser	Phe	Ala	Tyr	Gly	Gly	Trp	Asn	Phe	Leu	Asn	Tyr	Val	Thr	245	250	255
Glu	Glu	Leu	Val	Asp	Pro	Tyr	Lys	Asn	Leu	Pro	Arg	Ala	Ile	Phe	260	265	270
Ile	Ser	Ile	Pro	Leu	Val	Thr	Phe	Val	Tyr	Val	Phe	Ala	Asn	Val	275	280	285
Ala	Tyr	Val	Thr	Ala	Met	Ser	Pro	Gln	Glu	Leu	Leu	Ala	Ser	Asn	290	295	300
Ala	Val	Ala	Val	Thr	Phe	Gly	Glu	Lys	Leu	Leu	Gly	Val	Met	Ala	305	310	315
Trp	Ile	Met	Pro	Ile	Ser	Val	Ala	Leu	Ser	Thr	Phe	Gly	Gly	Val	320	325	330
Asn	Gly	Ser	Leu	Phe	Thr	Ser	Ser	Arg	Leu	Phe	Phe	Ala	Gly	Ala	335	340	345
Arg	Glu	Gly	His	Leu	Pro	Ser	Val	Leu	Ala	Met	Ile	His	Val	Lys	350	355	360
Arg	Cys	Thr	Pro	Ile	Pro	Ala	Leu	Leu	Phe	Thr	Cys	Ile	Ser	Thr	365	370	375
Leu	Leu	Met	Leu	Val	Thr	Ser	Asp	Met	Tyr	Thr	Leu	Ile	Asn	Tyr	380	385	390
Val	Gly	Phe	Ile	Asn	Tyr	Leu	Phe	Tyr	Gly	Val	Thr	Val	Ala	Gly	395	400	405
Gln	Ile	Val	Leu	Arg	Trp	Lys	Lys	Pro	Asp	Ile	Pro	Arg	Pro	Ile	410	415	420
Lys	Ile	Asn	Leu	Leu	Phe	Pro	Ile	Ile	Tyr	Leu	Leu	Phe	Trp	Ala	425	430	435
Phe	Leu	Leu	Val	Phe	Ser	Leu	Trp	Ser	Glu	Pro	Val	Val	Cys	Gly	440	445	450
Ile	Gly	Leu	Ala	Ile	Met	Leu	Thr	Gly	Val	Pro	Val	Tyr	Phe	Leu	455	460	465
Gly	Val	Tyr	Trp	Gln	His	Lys	Pro	Lys	Cys	Phe	Ser	Asp	Phe	Ile	470	475	480
Glu	Leu	Leu	Thr	Leu	Val	Ser	Gln	Lys	Met	Cys	Val	Val	Val	Tyr	485	490	495
Pro	Glu	Val	Glu	Arg	Gly	Ser	Gly	Thr	Glu	Glu	Ala	Asn	Glu	Asp	500	505	510
Met	Glu	Glu	Gln	Gln	Gln	Pro	Met	Tyr	Gln	Pro	Thr	Pro	Thr	Lys	515	520	525
Asp	Lys	Asp	Val	Ala	Gly	Gln	Pro	Gln	Pro						530	535	

<210> 7

<211> 456

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2466714CD1

<400> 7

Met	Glu	Ala	Ser	Trp	Gly	Ser	Phe	Asn	Ala	Glu	Arg	Gly	Trp	Tyr	1	5	10	15
Val	Ser	Val	Gln	Gln	Pro	Glu	Glu	Ala	Glu	Ala	Glu	Glu	Leu	Ser	20	25	30	
Pro	Leu	Leu	Ser	Asn	Glu	Leu	His	Arg	Gln	Arg	Ser	Pro	Gly	Val	35	40	45	
Ser	Phe	Gly	Leu	Ser	Val	Phe	Asn	Leu	Met	Asn	Ala	Ile	Met	Gly	50	55	60	
Ser	Gly	Ile	Leu	Gly	Leu	Ala	Tyr	Val	Met	Ala	Asn	Thr	Gly	Val	65	70	75	
Phe	Gly	Phe	Ser	Phe	Leu	Leu	Leu	Thr	Val	Ala	Leu	Leu	Ala	Ser	80	85	90	
Tyr	Ser	Val	His	Leu	Leu	Leu	Ser	Met	Cys	Ile	Gln	Thr	Ala	Val	95	100	105	
Thr	Ser	Tyr	Glu	Asp	Leu	Gly	Leu	Phe	Ala	Phe	Gly	Leu	Pro	Gly	110	115	120	
Lys	Leu	Val	Val	Ala	Gly	Thr	Ile	Ile	Ile	Gln	Asn	Ile	Gly	Ala	125	130	135	
Met	Ser	Ser	Tyr	Leu	Leu	Ile	Ile	Lys	Thr	Glu	Leu	Pro	Ala	Ala	140	145	150	
Ile	Ala	Glu	Phe	Leu	Thr	Gly	Asp	Tyr	Asn	Arg	Tyr	Trp	Tyr	Leu	155	160	165	
Asp	Gly	Gln	Thr	Leu	Leu	Ile	Ile	Ile	Cys	Val	Gly	Ile	Val	Phe	170	175	180	
Pro	Leu	Ala	Leu	Leu	Pro	Lys	Ile	Gly	Phe	Leu	Gly	Tyr	Thr	Ser	185	190	195	
Ser	Leu	Ser	Phe	Phe	Phe	Met	Met	Phe	Phe	Ala	Leu	Val	Val	Ile	200	205	210	
Ile	Lys	Lys	Trp	Ser	Ile	Pro	Cys	Pro	Leu	Thr	Leu	Asn	Tyr	Val	215	220	225	
Glu	Lys	Gly	Phe	Gln	Ile	Ser	Asn	Val	Thr	Asp	Asp	Cys	Lys	Pro	230	235	240	
Lys	Leu	Phe	His	Phe	Ser	Lys	Glu	Ser	Ala	Tyr	Ala	Leu	Pro	Thr	245	250	255	
Met	Ala	Phe	Ser	Phe	Leu	Cys	His	Thr	Ser	Ile	Leu	Pro	Ile	Tyr	260	265	270	
Cys	Glu	Leu	Gln	Ser	Pro	Ser	Lys	Lys	Arg	Met	Gln	Asn	Val	Thr	275	280	285	
Asn	Thr	Ala	Ile	Ala	Leu	Ser	Phe	Leu	Ile	Tyr	Phe	Ile	Ser	Ala	290	295	300	
Leu	Phe	Gly	Tyr	Leu	Thr	Phe	Tyr	Asp	Lys	Val	Glu	Ser	Glu	Leu	305	310	315	
Leu	Lys	Gly	Tyr	Ser	Lys	Tyr	Leu	Ser	His	Asp	Val	Val	Val	Met	320	325	330	
Thr	Val	Lys	Leu	Cys	Ile	Leu	Phe	Ala	Val	Leu	Leu	Thr	Val	Pro	335	340	345	
Leu	Ile	His	Phe	Pro	Ala	Arg	Lys	Ala	Val	Thr	Met	Met	Phe	Phe	350	355	360	

Ser	Asn	Phe	Pro	Phe	Ser	Trp	Ile	Arg	His	Phe	Leu	Ile	Thr	Leu
				365					370					375
Ala	Leu	Asn	Ile	Ile	Ile	Val	Leu	Leu	Ala	Ile	Tyr	Val	Pro	Asp
				380					385					390
Ile	Arg	Asn	Val	Phe	Gly	Val	Val	Gly	Ala	Ser	Thr	Ser	Thr	Cys
				395					400					405
Leu	Ile	Phe	Ile	Phe	Pro	Gly	Leu	Phe	Tyr	Leu	Lys	Leu	Ser	Arg
				410					415					420
Glu	Asp	Phe	Leu	Ser	Trp	Lys	Lys	Leu	Gly	Ala	Phe	Val	Leu	Leu
				425					430					435
Ile	Phe	Gly	Ile	Leu	Val	Gly	Asn	Phe	Ser	Leu	Ala	Leu	Ile	Ile
				440					445					450
Phe	Asp	Trp	Ile	Asn	Lys									
				455										

<210> 8

<211> 325

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2617942CD1

<400> 8

Met	Phe	Ala	Asn	Leu	Lys	Tyr	Val	Ser	Leu	Gly	Ile	Leu	Val	Phe
1				5					10					15
Gln	Thr	Thr	Ser	Leu	Val	Leu	Thr	Met	Arg	Tyr	Ser	Arg	Thr	Leu
				20					25					30
Lys	Glu	Glu	Gly	Pro	Arg	Tyr	Leu	Ser	Ser	Thr	Ala	Val	Val	Val
				35					40					45
Ala	Glu	Leu	Leu	Lys	Ile	Met	Ala	Cys	Ile	Leu	Leu	Val	Tyr	Lys
				50					55					60
Asp	Ser	Lys	Cys	Ser	Leu	Arg	Ala	Leu	Asn	Arg	Val	Leu	His	Asp
				65					70					75
Glu	Ile	Leu	Asn	Lys	Pro	Met	Glu	Thr	Leu	Lys	Leu	Ala	Ile	Pro
				80					85					90
Ser	Gly	Ile	Tyr	Thr	Leu	Gln	Asn	Asn	Leu	Leu	Tyr	Val	Ala	Leu
				95					100					105
Ser	Asn	Leu	Asp	Ala	Ala	Thr	Tyr	Gln	Val	Thr	Tyr	Gln	Leu	Lys
				110					115					120
Ile	Leu	Thr	Thr	Ala	Leu	Phe	Ser	Val	Ser	Met	Leu	Ser	Lys	Lys
				125					130					135
Leu	Gly	Val	Tyr	Gln	Trp	Leu	Ser	Leu	Val	Ile	Leu	Met	Thr	Gly
				140					145					150
Val	Ala	Phe	Val	Gln	Trp	Pro	Ser	Asp	Ser	Gln	Leu	Asp	Ser	Lys
				155					160					165
Glu	Leu	Ser	Ala	Gly	Ser	Gln	Phe	Val	Gly	Leu	Met	Ala	Val	Leu
				170					175					180
Thr	Ala	Cys	Phe	Ser	Ser	Gly	Phe	Ala	Gly	Val	Tyr	Phe	Glu	Lys
				185					190					195
Ile	Leu	Lys	Glu	Thr	Lys	Gln	Ser	Val	Trp	Ile	Arg	Asn	Ile	Gln
				200					205					210
Leu	Gly	Phe	Phe	Gly	Ser	Ile	Phe	Gly	Leu	Met	Gly	Val	Tyr	Ile

	215		220		225
Tyr Asp Gly Glu	Leu Val Ser Lys Asn	Gly Phe Phe Gln Gly	Tyr		
	230		235		240
Asn Arg Leu Thr	Trp Ile Val Val Val	Leu Gln Ala Leu Gly	Gly		
	245		250		255
Leu Val Ile Ala	Ala Val Ile Lys Tyr	Ala Asp Asn Ile Leu	Lys		
	260		265		270
Gly Phe Ala Thr	Ser Leu Ser Ile Ile	Leu Ser Thr Leu Ile	Ser		
	275		280		285
Tyr Phe Trp Leu	Gln Asp Phe Val Pro	Thr Ser Val Phe Phe	Leu		
	290		295		300
Gly Ala Ile Leu	Val Ile Thr Ala Thr	Phe Leu Tyr Gly Tyr	Asp		
	305		310		315
Pro Lys Pro Ala	Gly Asn Pro Thr Lys	Ala			
	320		325		

<210> 9

<211> 178

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2945431CD1

<400> 9

Met Ser Leu Ser	Pro Arg Ser Gln Leu	Ala Ile Ile Pro	Gln Glu	
1	5	10	15	
Pro Phe Leu Phe	Ser Gly Thr Val Arg	Glu Asn Leu Asp	Pro Gln	
	20	25	30	
Gly Leu His Lys	Asp Arg Ala Leu Trp	Gln Ala Leu Lys	Gln Cys	
	35	40	45	
His Leu Ser Glu	Val Ile Thr Ser Met	Gly Gly Leu Asp	Gly Glu	
	50	55	60	
Leu Gly Glu Gly	Gly Arg Ser Leu Ser	Leu Gly Gln Arg	Gln Leu	
	65	70	75	
Leu Cys Leu Ala	Arg Ala Leu Leu Thr	Asp Ala Lys Ile	Leu Cys	
	80	85	90	
Ile Asp Glu Ala	Thr Ala Ser Val Asp	Gln Lys Thr Asp	Gln Leu	
	95	100	105	
Leu Gln Gln Thr	Ile Cys Lys Arg Phe	Ala Asn Lys Thr	Val Leu	
	110	115	120	
Thr Ile Ala His	Arg Leu Asn Thr Ile	Leu Asn Ser Asp	Arg Val	
	125	130	135	
Leu Val Leu Gln	Ala Gly Arg Val Val	Glu Leu Asp Ser	Pro Ala	
	140	145	150	
Thr Leu Arg Asn	Gln Pro His Ser Leu	Phe Gln Gln Leu	Leu Gln	
	155	160	165	
Ser Ser Gln Gln	Gly Val Pro Ala Ser	Leu Gly Gly Pro		
	170	175		

<210> 10

<211> 255

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 4074113CD1

<400> 10

Met	Glu	Arg	Glu	Met	Glu	Gly	Arg	Pro	Leu	His	Asn	Glu	Gly	Trp
1				5					10					15
Ile	Asp	Arg	Ser	Arg	Val	Gln	Gln	Lys	Asp	Leu	Pro	Asn	Lys	Cys
				20					25					30
Pro	Gln	Thr	Leu	Trp	Ser	Glu	Gln	Ala	Phe	Pro	Pro	Asn	Pro	Gly
				35					40					45
Gln	Val	Gly	Ile	Val	Gly	Arg	Thr	Gly	Ala	Gly	Lys	Ser	Ser	Leu
				50					55					60
Ala	Ser	Gly	Leu	Leu	Arg	Leu	Pro	Glu	Ala	Ala	Glu	Gly	Gly	Ile
				65					70					75
Trp	Ile	Asp	Gly	Val	Pro	Ile	Ala	His	Val	Gly	Leu	His	Thr	Leu
				80					85					90
Arg	Ser	Arg	Ile	Ser	Ile	Ile	Pro	Gln	Asp	Pro	Ile	Leu	Phe	Pro
				95					100					105
Gly	Ser	Leu	Arg	Met	Asn	Leu	Asp	Leu	Leu	Gln	Glu	His	Ser	Asp
				110					115					120
Glu	Ala	Ile	Trp	Ala	Ala	Leu	Glu	Thr	Val	Gln	Leu	Lys	Ala	Leu
				125					130					135
Val	Ala	Ser	Leu	Pro	Gly	Gln	Leu	Gln	Tyr	Lys	Cys	Ala	Asp	Arg
				140					145					150
Gly	Glu	Asp	Leu	Ser	Val	Gly	Gln	Lys	Gln	Leu	Leu	Cys	Leu	Ala
				155					160					165
Arg	Ala	Leu	Leu	Arg	Lys	Thr	Gln	Ile	Leu	Ile	Leu	Asp	Glu	Ala
				170					175					180
Thr	Ala	Ala	Val	Asp	Pro	Gly	Thr	Glu	Leu	Gln	Met	Gln	Ala	Met
				185					190					195
Leu	Gly	Ser	Trp	Phe	Ala	Gln	Cys	Thr	Val	Leu	Leu	Ile	Ala	His
				200					205					210
Arg	Leu	Arg	Ser	Val	Met	Asp	Cys	Ala	Arg	Val	Leu	Val	Met	Asp
				215					220					225
Lys	Gly	Gln	Val	Ala	Glu	Ser	Gly	Ser	Pro	Ala	Gln	Leu	Leu	Ala
				230					235					240
Gln	Lys	Gly	Leu	Phe	Tyr	Arg	Leu	Ala	Gln	Glu	Ser	Gly	Leu	Val
				245					250					255

<210> 11

<211> 462

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1413743CD1

<400> 11

Met Ala Gln Val Ser Ile Asn Asn Asp Tyr Ser Glu Trp Asp Leu

1	5	10	15
Ser Thr Asp Ala Gly	Glu Arg Ala Arg	Leu Leu Gln Ser	Pro Cys
20	25	30	
Val Asp Thr Ala Pro	Lys Ser Glu Trp	Glu Ala Ser Pro	Gly Gly
35	40	45	
Leu Asp Arg Gly Thr	Thr Ser Thr Leu	Gly Ala Ile Phe	Ile Val
50	55	60	
Val Asn Ala Cys Leu	Gly Ala Gly Leu	Leu Asn Phe Pro	Ala Ala
65	70	75	
Phe Ser Thr Ala Gly	Gly Val Ala Ala	Gly Ile Ala Leu	Gln Met
80	85	90	
Gly Met Leu Val Phe	Ile Ile Ser Gly	Leu Val Ile Leu	Ala Tyr
95	100	105	
Cys Ser Gln Ala Ser	Asn Glu Arg Thr	Tyr Gln Glu Val	Val Trp
110	115	120	
Ala Val Cys Gly Lys	Leu Thr Gly Val	Leu Cys Glu Val	Ala Ile
125	130	135	
Ala Val Tyr Thr Phe	Gly Thr Cys Ile	Ala Phe Leu Ile	Ile Ile
140	145	150	
Gly Asp Gln Gln Asp	Lys Ile Ile Ala	Val Met Ala Lys	Glu Pro
155	160	165	
Glu Gly Ala Ser Gly	Pro Trp Tyr Thr	Asp Arg Lys Phe	Thr Ile
170	175	180	
Ser Leu Thr Ala Phe	Leu Phe Ile Leu	Pro Leu Ser Ile	Pro Arg
185	190	195	
Glu Ile Gly Phe Gln	Lys Tyr Ala Ser	Phe Leu Ser Val	Val Gly
200	205	210	
Thr Trp Tyr Val Thr	Ala Ile Val Ile	Ile Lys Tyr Ile	Trp Pro
215	220	225	
Asp Lys Glu Met Thr	Pro Gly Asn Ile	Leu Thr Arg Pro	Ala Ser
230	235	240	
Trp Met Ala Val Phe	Asn Ala Met Pro	Thr Ile Cys Phe	Gly Phe
245	250	255	
Gln Cys His Val Ser	Ser Val Pro Val	Phe Asn Ser Met	Gln Gln
260	265	270	
Pro Glu Val Lys Thr	Trp Gly Gly Val	Val Thr Ala Ala	Met Val
275	280	285	
Ile Ala Leu Ala Val	Tyr Met Gly Thr	Gly Ile Cys Gly	Phe Leu
290	295	300	
Thr Phe Gly Ala Ala	Val Asp Pro Asp	Val Leu Leu Ser	Tyr Pro
305	310	315	
Ser Glu Asp Met Ala	Val Ala Val Ala	Arg Ala Phe Ile	Ile Leu
320	325	330	
Ser Val Leu Thr Ser	Tyr Pro Ile Leu	His Phe Cys Gly	Arg Ala
335	340	345	
Val Val Glu Gly Leu	Trp Leu Arg Tyr	Gln Gly Val Pro	Val Glu
350	355	360	
Glu Asp Val Gly Arg	Glu Arg Arg Arg	Arg Val Leu Gln	Thr Leu
365	370	375	
Val Trp Phe Leu Leu	Thr Leu Leu Leu	Ala Leu Phe Ile	Pro Asp
380	385	390	
Ile Gly Lys Val Ile	Ser Val Ile Gly	Gly Leu Ala Ala	Cys Phe
395	400	405	
Ile Phe Val Phe Pro	Gly Leu Cys Leu	Ile Gln Ala Lys	Leu Ser
410	415	420	

Glu	Met	Glu	Glu	Val	Lys	Pro	Ala	Ser	Trp	Trp	Val	Leu	Val	Ser
				425					430					435
Tyr	Gly	Val	Leu	Leu	Val	Thr	Leu	Gly	Ala	Phe	Ile	Phe	Gly	Gln
				440					445					450
Thr	Thr	Ala	Asn	Ala	Ile	Phe	Val	Asp	Leu	Leu	Ala			
				455					460					

<210> 12

<211> 758

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1733477CD1

<400> 12

Met	Gly	Leu	Ala	Asp	Ala	Ser	Gly	Pro	Arg	Asp	Thr	Gln	Ala	Leu
1				5					10					15
Leu	Ser	Ala	Thr	Gln	Ala	Met	Asp	Leu	Arg	Arg	Arg	Asp	Tyr	His
				20					25					30
Met	Glu	Arg	Pro	Leu	Leu	Asn	Gln	Glu	His	Leu	Glu	Glu	Leu	Gly
				35					40					45
Arg	Trp	Gly	Ser	Ala	Pro	Arg	Thr	His	Gln	Trp	Arg	Thr	Trp	Leu
				50					55					60
Gln	Cys	Ser	Arg	Ala	Arg	Ala	Tyr	Ala	Leu	Leu	Gln	His	Leu	
				65					70					75
Pro	Val	Leu	Val	Trp	Leu	Pro	Arg	Tyr	Pro	Val	Arg	Asp	Trp	Leu
				80					85					90
Leu	Gly	Asp	Leu	Leu	Ser	Gly	Leu	Ser	Val	Ala	Ile	Met	Gln	Leu
				95					100					105
Pro	Gln	Gly	Leu	Ala	Tyr	Ala	Leu	Leu	Ala	Gly	Leu	Pro	Pro	Val
				110					115					120
Phe	Gly	Leu	Tyr	Ser	Ser	Phe	Tyr	Pro	Val	Phe	Ile	Tyr	Phe	Leu
				125					130					135
Phe	Gly	Thr	Ser	Arg	His	Ile	Ser	Val	Gly	Thr	Phe	Ala	Val	Met
				140					145					150
Ser	Val	Met	Val	Gly	Gly	Val	Thr	Glu	Ser	Leu	Ala	Pro	Gln	Ala
				155					160					165
Leu	Asn	Asp	Ser	Met	Ile	Asn	Glu	Thr	Ala	Arg	Asp	Ala	Ala	Arg
				170					175					180
Val	Gln	Val	Ala	Ser	Thr	Leu	Ser	Val	Leu	Val	Gly	Leu	Phe	Gln
				185					190					195
Val	Gly	Leu	Gly	Leu	Ile	His	Phe	Gly	Phe	Val	Val	Thr	Tyr	Leu
				200					205					210
Ser	Glu	Pro	Leu	Val	Arg	Gly	Tyr	Thr	Thr	Ala	Ala	Ala	Val	Gln
				215					220					225
Val	Phe	Val	Ser	Gln	Leu	Lys	Tyr	Val	Phe	Gly	Leu	His	Leu	Ser
				230					235					240
Ser	His	Ser	Gly	Pro	Leu	Ser	Leu	Ile	Tyr	Thr	Val	Leu	Glu	Val
				245					250					255
Cys	Trp	Lys	Leu	Pro	Gln	Ser	Lys	Val	Gly	Thr	Val	Val	Thr	Ala
				260					265					270
Ala	Val	Ala	Gly	Val	Val	Leu	Val	Val	Val	Lys	Leu	Leu	Asn	Asp

	275		280		285
Lys Leu Gln Gln Gln Leu Pro Met Pro	Ile Pro Gly Glu Leu Leu				
	290		295		300
Thr Leu Ile Gly Ala Thr Gly Ile Ser	Tyr Gly Met Gly Leu Lys				
	305		310		315
His Arg Phe Glu Val Asp Val Val Gly	Asn Ile Pro Ala Gly Leu				
	320		325		330
Val Pro Pro Val Ala Pro Asn Thr Gln	Leu Phe Ser Lys Leu Val				
	335		340		345
Gly Ser Ala Phe Thr Ile Ala Val Val	Gly Phe Ala Ile Ala Ile				
	350		355		360
Ser Leu Gly Lys Ile Phe Ala Leu Arg	His Gly Tyr Arg Val Asp				
	365		370		375
Ser Asn Gln Glu Leu Val Ala Leu Gly	Leu Ser Asn Leu Ile Gly				
	380		385		390
Gly Ile Phe Gln Cys Phe Pro Val Ser	Cys Ser Met Ser Arg Ser				
	395		400		405
Leu Val Gln Glu Ser Thr Gly Gly Asn	Ser Gln Val Ala Gly Ala				
	410		415		420
Ile Ser Ser Leu Phe Ile Leu Leu Ile	Ile Val Lys Leu Gly Glu				
	425		430		435
Leu Phe His Asp Leu Pro Lys Ala Val	Leu Ala Ala Ile Ile Ile				
	440		445		450
Val Asn Leu Lys Gly Met Leu Arg Gln	Leu Ser Asp Met Arg Ser				
	455		460		465
Leu Trp Lys Ala Asn Arg Ala Asp Leu	Leu Ile Trp Leu Val Thr				
	470		475		480
Phe Thr Ala Thr Ile Leu Leu Asn Leu	Asp Leu Gly Leu Val Val				
	485		490		495
Ala Val Ile Phe Ser Leu Leu Leu Val	Val Val Arg Thr Gln Met				
	500		505		510
Pro His Tyr Ser Val Leu Gly Gln Val	Pro Asp Thr Asp Ile Tyr				
	515		520		525
Arg Asp Val Ala Glu Tyr Ser Glu Ala	Lys Glu Val Arg Gly Val				
	530		535		540
Lys Val Phe Arg Ser Ser Ala Thr Val	Tyr Phe Ala Asn Ala Glu				
	545		550		555
Phe Tyr Ser Asp Ala Leu Lys Gln Arg	Cys Gly Val Asp Val Asp				
	560		565		570
Phe Leu Ile Ser Gln Lys Lys Lys Leu	Leu Lys Lys Gln Glu Gln				
	575		580		585
Leu Lys Leu Lys Gln Leu Gln Lys Glu	Glu Lys Leu Arg Lys Gln				
	590		595		600
Ala Ala Ser Pro Lys Gly Ala Ser Val	Ser Ile Asn Val Asn Thr				
	605		610		615
Ser Leu Glu Asp Met Arg Ser Asn Asn	Val Glu Asp Cys Lys Met				
	620		625		630
Met Val Ser Ser Gly Asp Lys Met Glu	Asp Ala Thr Ala Asn Gly				
	635		640		645
Gln Glu Asp Ser Lys Ala Pro Asp Gly	Ser Thr Leu Lys Ala Leu				
	650		655		660
Gly Leu Pro Gln Pro Asp Phe His Ser	Leu Ile Leu Asp Leu Gly				
	665		670		675
Ala Leu Ser Phe Val Asp Thr Val Cys	Leu Lys Ser Leu Lys Asn				
	680		685		690

Ile	Phe	His	Asp	Phe	Arg	Glu	Ile	Glu	Val	Glu	Val	Tyr	Met	Ala	
				695					700					705	
Ala	Cys	His	Ser	Pro	Val	Val	Ser	Gln	Leu	Glu	Ala	Gly	His	Phe	
				710					715					720	
Phe	Asp	Ala	Ser	Ile	Thr	Lys	Lys	His	Leu	Phe	Ala	Ser	Val	His	
				725					730					735	
Asp	Ala	Val	Thr	Phe	Ala	Leu	Gln	His	Pro	Arg	Pro	Val	Pro	Asp	
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Ser	Pro	Val	Ser	Val	Thr	Arg	Leu								
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<210> 13

<211> 336

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2641908CD1

<400> 13

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Arg	Leu	Tyr	Val	Asp	Ile	Asn	Gln	Met	Pro	Glu	Gly	Gly	Ile	Ser	
				20					25					30	
Leu	Thr	Ile	Lys	Asp	Pro	Arg	Trp	Val	Gly	Ala	Trp	Trp	Leu	Gly	
				35					40					45	
Phe	Leu	Ile	Ala	Ala	Gly	Ala	Val	Ala	Leu	Ala	Ala	Ile	Pro	Tyr	
				50					55					60	
Phe	Phe	Phe	Pro	Lys	Glu	Met	Pro	Lys	Glu	Lys	Arg	Glu	Leu	Gln	
				65					70					75	
Phe	Arg	Arg	Lys	Val	Leu	Ala	Val	Thr	Asp	Ser	Pro	Ala	Arg	Lys	
				80					85					90	
Gly	Lys	Asp	Ser	Pro	Ser	Lys	Gln	Ser	Pro	Gly	Glu	Ser	Thr	Lys	
				95					100					105	
Lys	Gln	Asp	Gly	Leu	Val	Gln	Ile	Ala	Pro	Asn	Leu	Thr	Val	Ile	
				110					115					120	
Gln	Phe	Ile	Lys	Val	Phe	Pro	Arg	Val	Leu	Leu	Gln	Thr	Leu	Arg	
				125					130					135	
His	Pro	Ile	Phe	Leu	Leu	Val	Val	Leu	Ser	Gln	Val	Cys	Leu	Ser	
				140					145					150	
Ser	Met	Ala	Ala	Gly	Met	Ala	Thr	Phe	Leu	Pro	Lys	Phe	Leu	Glu	
				155					160					165	
Arg	Gln	Phe	Ser	Ile	Thr	Ala	Ser	Tyr	Ala	Asn	Leu	Leu	Ile	Gly	
				170					175					180	
Cys	Leu	Ser	Phe	Pro	Ser	Val	Ile	Val	Gly	Ile	Val	Val	Gly	Gly	
				185					190					195	
Val	Leu	Val	Lys	Arg	Leu	His	Leu	Gly	Pro	Val	Gly	Cys	Gly	Ala	
				200					205					210	
Leu	Cys	Leu	Leu	Gly	Met	Leu	Leu	Cys	Leu	Phe	Phe	Ser	Leu	Pro	
				215					220					225	
Leu	Phe	Phe	Ile	Gly	Cys	Ser	Ser	His	Gln	Ile	Ala	Gly	Ile	Thr	
				230					235					240	
His	Gln	Thr	Ser	Ala	His	Pro	Gly	Leu	Glu	Leu	Ser	Pro	Ser	Cys	

	245		250		255
Met Glu Ala Cys Ser Cys Pro Leu Asp Gly Phe Asn Pro Val Cys					
	260		265		270
Asp Pro Ser Thr Arg Val Glu Tyr Ile Thr Pro Cys His Ala Gly					
	275		280		285
Cys Ser Ser Trp Val Val Gln Asp Ala Leu Asp Asn Ser Gln Ser					
	290		295		300
Pro Pro Thr Ser His Pro His Ala Gly His Gln His Leu Asn Leu					
	305		310		315
Arg Leu Leu Gln Gly Glu Thr Trp Ala Ala Leu Ala Gly Ala Glu					
	320		325		330
Glu Pro Val Asp Gly Ala					
	335				

<210> 14
 <211> 103
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2656554CD1

<400> 14	
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20 25 30	
Leu Ile Leu Thr Ile Leu Thr Ile Trp Leu Phe Lys Asn His Arg	
35 40 45	
Phe Arg Phe Leu His Glu Thr Gly Gly Ala Met Val Tyr Asp Lys	
50 55 60	
Pro Pro Lys Phe Ala Met Ser Arg Glu Gln Met Ser Gln Ser Cys	
65 70 75	
Ser His Thr Ala His Asn Ala Ser Leu Leu Thr Asp Ala Gly Pro	
80 85 90	
Leu Ser Cys Gly Glu Ser Arg Ala Ser Cys Leu Phe Leu	
95 100	

<210> 15
 <211> 123
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2719228CD1

<400> 15	
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1 5 10 15	
Leu Gly His Thr Ser Ser Phe Cys Glu Ser Val Val Phe Ala Ser	
20 25 30	

Ala	Ser	Ile	Gly	Leu	Gln	Thr	Phe	Asn	His	Ser	Gly	Ile	Ser	Val
				35					40					45
Asn	Ile	Gln	Asp	Leu	Ala	Pro	Ser	Cys	Ala	Gly	Phe	Leu	Phe	Gly
				50					55					60
Val	Ala	Asn	Thr	Ala	Gly	Ala	Leu	Ala	Gly	Val	Val	Gly	Val	Cys
				65					70					75
Leu	Gly	Gly	Tyr	Leu	Met	Glu	Thr	Thr	Gly	Ser	Trp	Thr	Cys	Leu
				80					85					90
Phe	Asn	Leu	Val	Ala	Ile	Ile	Ser	Asn	Leu	Gly	Leu	Cys	Thr	Phe
				95					100					105
Leu	Val	Phe	Gly	Gln	Ala	Gln	Arg	Val	Asp	Leu	Ser	Ser	Thr	His
				110					115					120

Glu Asp Leu

<210> 16
 <211> 222
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 3657824CD1

<400> 16

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Ser	Pro	Thr	Pro	Ser	Ala	Gln	Phe	Pro	Arg	Asn	Asp	Gly	Asp	Pro
				20					25					30
Gln	Ala	Leu	Trp	Ile	Phe	Gly	Tyr	Gly	Ser	Leu	Val	Trp	Arg	Pro
				35					40					45
Asp	Phe	Ala	Tyr	Ser	Asp	Ser	Arg	Val	Gly	Phe	Val	Arg	Gly	Tyr
				50					55					60
Ser	Arg	Arg	Phe	Trp	Gln	Gly	Asp	Thr	Phe	His	Arg	Gly	Ser	Asp
				65					70					75
Lys	Met	Pro	Gly	Arg	Val	Val	Thr	Leu	Leu	Glu	Asp	His	Glu	Gly
				80					85					90
Cys	Thr	Trp	Gly	Val	Ala	Tyr	Gln	Val	Gln	Gly	Glu	Gln	Val	Ser
				95					100					105
Lys	Ala	Leu	Lys	Tyr	Leu	Asn	Val	Arg	Glu	Ala	Val	Leu	Gly	Gly
				110					115					120
Tyr	Asp	Thr	Lys	Glu	Val	Thr	Phe	Tyr	Pro	Gln	Asp	Ala	Pro	Asp
				125					130					135
Gln	Pro	Leu	Lys	Ala	Leu	Ala	Tyr	Val	Ala	Thr	Pro	Gln	Asn	Pro
				140					145					150
Gly	Tyr	Leu	Gly	Pro	Ala	Pro	Glu	Glu	Ala	Ile	Ala	Thr	Gln	Ile
				155					160					165
Leu	Ala	Cys	Arg	Gly	Phe	Ser	Gly	His	Asn	Leu	Glu	Tyr	Leu	Leu
				170					175					180
Arg	Leu	Ala	Asp	Phe	Met	Gln	Leu	Cys	Gly	Pro	Gln	Ala	Gln	Asp
				185					190					195
Glu	His	Leu	Ala	Ala	Ile	Val	Asp	Ala	Val	Gly	Thr	Met	Leu	Pro
				200					205					210
Cys	Phe	Cys	Pro	Thr	Glu	Gln	Ala	Leu	Ala	Leu	Val			
				215					220					

<210> 17
 <211> 111
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 5378485CD1

<400> 17
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 1 5 10 15
 Pro Leu Leu Gly Pro Ala Ser Cys Leu Gly Ile Leu Arg Pro Ala
 20 25 30
 Met Thr Ala His Ser Phe Ala Leu Pro Val Ile Ile Phe Thr Thr
 35 40 45
 Phe Trp Gly Leu Val Gly Ile Ala Gly Pro Trp Phe Val Pro Lys
 50 55 60
 Gly Pro Asn Arg Gly Val Ile Ile Thr Met Leu Val Ala Thr Ala
 65 70 75
 Val Cys Cys Tyr Leu Phe Trp Leu Ile Ala Ile Leu Ala Gln Leu
 80 85 90
 Asn Pro Leu Phe Gly Pro Gln Leu Lys Asn Glu Thr Ile Trp Tyr
 95 100 105
 Val Arg Phe Leu Trp Glu
 110

<210> 18
 <211> 1303
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 961344CB1

<400> 18
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 cagacaggta accagtcggg gagaggcaca tttggagctg aatgcatttc gaaggaagca 180
 tgattgtgca ctagtcatat ctggggactc tctggagggt tgtctaaagt actacgagca 240
 tgaatttgtg gagctggcct gccagtgcc tgccgtgggt tgctgccgct gctcaccac 300
 ccagaaggcc cgcatgtgta cactgctgca gcagcacaca gggagacgca cctgcgccat 360
 cggatgatgga ggaaatgatg tcagcatgat tcaggcagca gactgtggga ttgggattga 420
 gggaaaggag ggtaaacagg cctcgctggc ggccgacttc tccatcacgc agttccggca 480
 cataggcagg ctgctcatgg tgcacgggcg gaacagctac aagaggtcgg cggcactcgg 540
 ccagttcgtc atgcacaggg gccttatcat ctccaccatg caggctgtgt tttcctcagt 600
 cttctacttc gcatecgtcc ctttgtatca gggcttctc atggtgggggt atgccaccat 660
 atacaccatg ttcacagtgt tctccttagt gctggaccag gacgtgaagc cagagatggc 720
 gatgctctac ccggagctgt acaaggacct caccaaggga agatccttgt cttcaaaac 780
 cttcctcatc tgggttttaa taagtattta ccaaggcggc atcctcatgt atggggccct 840
 ggtgctcttc gagtctgagt tegtccacgt ggtggccatc tccttcaccg cactgatcct 900
 gaccgagctg ctgatgggtg cgctgaccgt ccgcacgtgg cactggctga tgggtgggtggc 960
 cgagttcctc agcttaggct gctacgtgtc ctactcgtc tttctcaatg aatatttttg 1020

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tataggcaga gtgtcttttg gagctttctt agatgttgcc tttatcacca ccgtgacctt 1080
cctgtggaaa gtgtcggcga tcaccgtggt cagctgcctc ccgctgtatg tcctcaagta 1140
cctgaggcgc aagctctctc ctcccagcta ctgcaagctg gcctcctaag gggctgtgca 1200
ccccagcgg gctggcccca gcaccttctg cccttcccag caccttgtgc ctttgccagt 1260
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<210> 19

<211> 3395

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3128782CB1

<400> 19

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ccaagcagca gccgcccggag cccgagtggg tccgggacgg agagagcacg agcccatcag 120
acaaagtggg gaagaaaggg aagaaggaca agaagatcaa aaaaacgttc tttgaagagc 180
tggcagtaga agataaacag gctgggggag aagagaaagt gctcaaggag aaggagcagc 240
agcagcagca acagcaacag cagcagcaaa aaaaaagcg agatacccg aaaggcaggc 300
ggaagaagga tgtggatgat gatggagaag agaaagagct catggagcgt cttagaagc 360
tctcagtgcc aaccagtgat gaggaggatg aagtaccgc cccaaaacc cgcgagggga 420
agaaaaccaa ggggtggtaat gtttttgcag ccctgattca ggatcagagt gaggaagagg 480
aggaggaaga aaaacatcct cctaagcctg ccaagccgga gaagaatcgg atcaataagg 540
ccgtatctga ggaacagcag cctgcactca agggcaaaaa gggaaaggaa gagaagtaa 600
aaggggaagg taagcctcaa aataaattcg ctgctctgga caatgaagag gaggataaag 660
aagaagaaat tataaaggaa aaggagcctc ccaacaagg gaaggagaag gccagaagg 720
cagagcaggg ttcagaggaa gaaggagaag gggaagaaga ggaggaggaa ggaggagagt 780
ctaaggcaga tgatccctat gctcatctta gcaaaaagga gaagaaaaag ctgaaaaaac 840
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tgtgtgagca ggaggtggta gcagatgaga caccagcagt ccaggctgtt cttcgagctg 1200
acaccaagcg attgaagctg ctggaagagg agcggcggtc tcagggacag ctggaacaag 1260
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tctcccatga ccagggttc ttggatgatg tctgcactga tatcatccac ctcgatgcc 1620
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gccctaagga gtacactgtg cgttctactt tccagaccc cccaccactc agccctccag 1920
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agaaccaccg gctgaaaatt ggcttcttca accagcagta tgcagagcag ctgcgcatgg 2160
aggagacgcc cactgagtac ctgcagcggg gcttcaacct gccctaccag gatgccgca 2220
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ccatcaatga atacaagggg gctgtgatcg ttgtcagcca tgatgcccga ctcatcacag 2460
aaaccaattg ccagctgtgg gtggtggagg agcagagtgt tagccaaatc gatggtgact 2520
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<210> 20
<211> 2549
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<223> Incyte ID No: 1720440CB1

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taccgttcgg cggcaccgga acaagacggc cctgatcttc gagggcacag ataccactg 180
gaccttcgcg cagctgggatg agtactcaag cagtgtagcc aacttcctgc agggccggg 240
ctgaccatcg gcgatgtggc tgccatcttc atggagaacc gcaatgagtt cgtgggccta 300
tggctgggca tggccaagct cgggtgtggg gcagccctca tcaacaccaa cctgcggcgg 360
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<210> 21

<211> 2562

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2274290CB1

<400> 21

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<210> 22
<211> 2314
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<223> Incyte ID No: 2740029CB1

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<210> 23
<211> 2155
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<223> Incyte ID No: 2414415CB1

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<210> 24
<211> 1475
<212> DNA
<213> Homo sapiens

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<220>
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<223> Incyte ID No: 2466714CB1

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<210> 25
<211> 1793
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<223> Incyte ID No: 2617942CB1

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<400> 25

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<210> 26

<211> 1141

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2945431CB1

<400> 26

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<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<223> Incyte ID No: 1733477CB1

<400> 29

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<211> 1481

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2641908CB1

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<211> 667

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2656554CB1

<400> 31

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<211> 1635
 <212> DNA
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cgctgctcgg ccctgcatcc tgccctgggca tccctgcgcc ggccatgacg gcgcactcat 120
tcgccctccc ggtcatcatc ttcaccacgt tctggggcct cgtcggcatc gccgggccct 180
ggttcgtgcc gaagggaccc aaccgcgag tgatcatcac catgctggtc gccaccgccg 240
tctgtctgta cctcttcttg ctcatcgcca tccctggcgca gctgaacccc ctgttcgggc 300
cccagctgaa gaatgagacc atctggtacg tgcgcttcct gtgggagtga cccgccgcc 360
ccgacccagg tgcccagctc tcggaatgac tgtggtccca ctgtccctga caacccttc 420
gtccggaccc tccccacac aactatgtct ggtcaccagc tccctcctgc tggcaccag 480
agacccggac ccgcaggccc tgccctgggtc ctggaagtct tccagtcctt cccagccagc 540
ccggggccct ggggagccct gggcacagca gcggccgagg ggatgtcctg ctccaatact 600
cgcactgctc tggagtttgc actctttcgc aaggagatgc tgctggggag ctggtat 657

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<210> 35
 <211> 646
 <212> PRT
 <213> Mus musculus

<220>
 <221> misc_feature
 <223> GenBank ID No: g2612939

<400> 35
 Met Arg Ala Pro Gly Ala Gly Thr Ala Ser Val Ala Ser Leu Ala

1	5	10	15
Leu Leu Trp Phe	Leu Gly Leu Pro Trp Thr	Trp Ser Ala Ala Ala	
	20	25	30
Ala Phe Cys Val Tyr	Val Gly Gly Gly Gly	Trp Arg Phe Leu Arg	
	35	40	45
Ile Val Cys Lys Thr	Ala Arg Arg Asp Leu	Phe Gly Leu Ser Val	
	50	55	60
Leu Ile Arg Val Arg	Leu Glu Leu Arg Arg	His Arg Arg Ala Gly	
	65	70	75
Asp Thr Ile Pro Cys	Ile Phe Gln Ala Val	Ala Arg Arg Gln Pro	
	80	85	90
Glu Arg Leu Ala Leu	Val Asp Ala Ser Ser	Gly Ile Cys Trp Thr	
	95	100	105
Phe Ala Gln Leu Asp	Thr Tyr Ser Asn Ala	Val Ala Asn Leu Phe	
	110	115	120
Arg Gln Leu Gly Phe	Ala Pro Gly Asp Val	Val Ala Val Phe Leu	
	125	130	135
Glu Gly Arg Pro Glu	Phe Val Gly Leu Trp	Leu Gly Leu Ala Lys	
	140	145	150
Ala Gly Val Val Ala	Ala Leu Leu Asn Val	Asn Leu Arg Arg Glu	
	155	160	165
Pro Leu Ala Phe Cys	Leu Gly Thr Ser Ala	Ala Lys Ala Leu Ile	
	170	175	180
Tyr Gly Gly Glu Met	Ala Ala Ala Val Ala	Glu Val Ser Glu Gln	
	185	190	195
Leu Gly Lys Ser Leu	Leu Lys Phe Cys Ser	Gly Asp Leu Gly Pro	
	200	205	210
Glu Ser Ile Leu Pro	Asp Thr Gln Leu Leu	Asp Pro Met Leu Ala	
	215	220	225
Glu Ala Pro Thr Thr	Pro Leu Ala Gln Ala	Pro Gly Lys Gly Met	
	230	235	240
Asp Asp Arg Leu Phe	Tyr Ile Tyr Thr Ser	Gly Thr Thr Gly Leu	
	245	250	255
Pro Lys Ala Ala Ile	Val Val His Ser Arg	Tyr Tyr Arg Ile Ala	
	260	265	270
Ala Phe Gly His His	Ser Tyr Ser Met Arg	Ala Ala Asp Val Leu	
	275	280	285
Tyr Asp Cys Leu Pro	Leu Tyr His Ser Ala	Gly Asn Ile Met Gly	
	290	295	300
Val Gly Gln Cys Val	Ile Tyr Gly Leu Thr	Val Val Leu Arg Lys	
	305	310	315
Lys Phe Ser Ala Ser	Arg Phe Trp Asp Asp	Cys Val Lys Tyr Asn	
	320	325	330
Cys Thr Val Val Gln	Tyr Ile Gly Glu Ile	Cys Arg Tyr Leu Leu	
	335	340	345
Arg Gln Pro Val Arg	Asp Val Glu Gln Arg	His Arg Val Arg Leu	
	350	355	360
Ala Val Gly Asn Gly	Leu Arg Pro Ala Ile	Trp Glu Glu Phe Thr	
	365	370	375
Gln Arg Phe Gly Val	Pro Gln Ile Gly Glu	Phe Tyr Gly Ala Thr	
	380	385	390
Glu Cys Asn Cys Ser	Ile Ala Asn Met Asp	Gly Lys Val Gly Ser	
	395	400	405
Cys Gly Phe Asn Ser	Arg Ile Leu Thr His	Val Tyr Pro Ile Arg	
	410	415	420

Leu Val Lys Val	Asn Glu Asp Thr Met	Glu Pro Leu Arg Asp Ser	425	430	435
Glu Gly Leu Cys	Ile Pro Cys Gln Pro	Gly Glu Pro Gly Leu Leu	440	445	450
Val Gly Gln Ile	Asn Gln Gln Asp Pro	Leu Arg Arg Phe Asp Gly	455	460	465
Tyr Val Ser Asp	Ser Ala Thr Asn Lys	Lys Ile Ala His Ser Val	470	475	480
Phe Arg Lys Gly	Asp Ser Ala Tyr Leu	Ser Gly Asp Val Leu Val	485	490	495
Met Asp Glu Leu	Gly Tyr Met Tyr Phe	Arg Asp Arg Ser Gly Asp	500	505	510
Thr Phe Arg Trp	Arg Gly Glu Asn Val	Ser Thr Thr Glu Val Glu	515	520	525
Ala Val Leu Ser	Arg Leu Leu Gly Gln	Thr Asp Val Ala Val Tyr	530	535	540
Gly Val Ala Val	Pro Gly Val Glu Gly	Lys Ala Gly Met Ala Ala	545	550	555
Ile Ala Asp Pro	His Ser Gln Leu Asp	Pro Asn Ser Met Tyr Gln	560	565	570
Glu Leu Gln Lys	Val Leu Ala Ser Tyr	Ala Arg Pro Ile Phe Leu	575	580	585
Arg Leu Leu Pro	Gln Val Asp Thr Thr	Gly Thr Phe Lys Ile Gln	590	595	600
Lys Thr Arg Leu	Gln Arg Glu Gly Phe	Asp Pro Arg Gln Thr Ser	605	610	615
Asp Arg Leu Phe	Phe Leu Asp Leu Lys	Gln Gly Arg Tyr Val Pro	620	625	630
Leu Asp Glu Arg	Val His Ala Arg Ile	Cys Ala Gly Asp Phe Ser	635	640	645
Leu					

<210> 36
 <211> 691
 <212> PRT
 <213> Schistosoma mansoni

<220>
 <221> misc_feature
 <223> GenBank ID No: g425474

<400> 36	
Met Phe Ser Ala Leu Cys Arg Arg Gly Phe Leu Thr Asn Lys Val	
1 5 10 15	
Ser Gln Phe Arg Ser Thr Tyr Lys Cys Asp His Tyr Asn Leu Lys	
20 25 30	
Thr His Ile Lys Pro Leu Lys Cys Ser Ser Ser Leu Arg Leu Thr	
35 40 45	
Val Gly Thr Gly Leu Phe Ile Ala Leu His Ser Lys Ile Ser Pro	
50 55 60	
Glu Ser Arg Ile Gln Thr Val Gln Cys Glu Val Asp Ser Tyr Gln	
65 70 75	
Thr Asp Gln Ile Thr Phe Ala Lys Ser Gly Gly Ile Pro Arg Tyr	
80 85 90	

Ile Gly Val Leu	Ile Leu Pro Asp Cys	Val Tyr Leu Phe Gly	Ala
95	100		105
Ile Leu Gly Ala	Phe Val Ala Ala Val	Met Asn Val Tyr Ile	Pro
110	115		120
Leu Tyr Leu Gly	Asp Phe Val Ser Ser	Leu Ser Arg Cys Val	Val
125	130		135
Thr His Glu Gly	Phe Val Ser Ala Val	Tyr Val Pro Thr Leu	Arg
140	145		150
Leu Cys Ser Ser	Tyr Leu Leu Gln Ser	Leu Ser Thr Phe Leu	Tyr
155	160		165
Ile Gly Leu Leu	Gly Ser Val Gly Glu	Arg Met Ala Arg Arg	Met
170	175		180
Arg Ile Gln Leu	Phe Arg Lys Leu Val	Tyr Gln Asp Val Ala	Tyr
185	190		195
Phe Asp Val His	Ser Ser Gly Lys Leu	Val Glu Ile Ile Gly	Ser
200	205		210
Asp Val Gln Asn	Phe Lys Ser Ser Phe	Lys Gln Cys Ile Ser	Gln
215	220		225
Gly Leu Arg Asn	Gly Ile Gln Val Val	Gly Ser Val Phe Ala	Leu
230	235		240
Leu Ser Ile Ser	Pro Thr Leu Thr Ala	Ala Leu Ile Gly Cys	Leu
245	250		255
Pro Cys Val Phe	Leu Ile Gly Ser Leu	Met Gly Thr Glu Leu	Arg
260	265		270
His Ile Ser Arg	Glu Val Gln Ser Gln	Asn Ser Leu Phe Ala	Ser
275	280		285
Leu Ile Asp Glu	Ala Phe Ser His Ile	Arg Thr Val Lys Ser	Leu
290	295		300
Ala Met Glu Asp	Phe Leu Ile Asn Lys	Ile Asn Tyr Asn Val	Asp
305	310		315
Lys Ala Lys Met	Leu Ser Glu Lys Leu	Ser Phe Gly Ile Gly	Ser
320	325		330
Phe Gln Gly Leu	Ser Asn Leu Thr Leu	Asn Gly Val Val Leu	Gly
335	340		345
Val Leu Tyr Val	Gly Gly His Leu Met	Ser Arg Gly Glu Leu	Asp
350	355		360
Ala Gly His Leu	Met Ser Phe Leu Ala	Thr Thr Gln Thr Leu	Gln
365	370		375
Arg Ser Leu Thr	Gln Leu Ser Leu Leu	Tyr Gly Gln Val Val	Arg
380	385		390
Gly Tyr Thr Ala	Leu Lys Arg Ile His	Asp Ile Leu Ala Leu	Pro
395	400		405
Ser Gly Ile Gly	Ser Ile Pro Ser Ser	Ser Ser Ser Leu Val	Val
410	415		420
Ser Lys Gln His	Val Asn Asn Ile Lys	Glu Leu Pro Ser Ser	Ser
425	430		435
Ile Tyr Ser Ala	Pro Ser Ile Glu Phe	Ser Asp Val Lys Phe	Ala
440	445		450
Tyr Pro Asn Arg	Pro Glu Thr Ile Val	Leu Asn Glu Leu Ser	Met
455	460		465
Phe Leu Pro Gly	Gly Lys Val Ile Ala	Leu Val Gly Gln Ser	Gly
470	475		480
Ala Gly Lys Ser	Thr Val Val Ser Leu	Leu Glu Arg Phe Tyr	Asp
485	490		495
Pro Ile Ser Gly	Glu Ile Leu Leu Asn	Gly Asp Lys Leu Thr	Asn

	500		505		510
Phe Asn Val Asn Tyr Leu Arg Ser Lys	Leu Ile Gly Tyr Ile Ser				
	515		520		525
Gln Glu Pro Gln Ile Phe Asn Ala Ser	Ile Arg Glu Asn Ile Arg				
	530		535		540
Phe Gly Arg Phe Asp Ala Thr Asp Glu	Glu Val Glu Glu Ala Ala				
	545		550		555
Lys Leu Ala Tyr Ala His Asp Phe Ile	Ser Asn Asp Leu Pro Tyr				
	560		565		570
Gly Tyr Asp Thr Leu Val Gly Gln Gly	Thr Gly Thr Ile Ala Gly				
	575		580		585
Leu Ser Gly Gly Gln Arg Gln Arg Ile	Ala Ile Ala Arg Ile Leu				
	590		595		600
Leu Lys Asn Ala Pro Ile Leu Leu Met	Asp Glu Ala Thr Ser Ala				
	605		610		615
Leu Asp Thr Glu Ser Glu Ala Lys Val	Gln Asn Ala Leu Asn Asn				
	620		625		630
Ala Met Lys Gly Arg Thr Val Leu Ile	Ile Ala His Arg Leu Ser				
	635		640		645
Thr Val Arg Lys Ala Asp Leu Ile Leu	Val Met Ser Lys Gly Gln				
	650		655		660
Ile Val Glu Lys Gly Thr His Ser Glu	Leu Met Ala Asn His Gly				
	665		670		675
Tyr Tyr Tyr Asn Leu Val Gln Arg Gln	Glu Gly Cys Asp Val Phe				
	680		685		690

Asp

<210> 37

<211> 634

<212> PRT

<213> Rattus norvegicus

<220>

<221> misc_feature

<223> GenBank ID No: g3015617

<400> 37

Met Thr Val Ala Ser Thr Ala Ala Pro	Ser Tyr Thr Thr Ser Asp		
1	5	10	15
Thr Asn Arg Val Ile Ser Thr Phe Ser	Val Val Asp Tyr Val Val		
	20	25	30
Phe Gly Leu Leu Val Leu Ser Leu Val	Ile Gly Leu Tyr His		
	35	40	45
Ala Cys Arg Gly Trp Gly Arg His Thr	Val Gly Glu Leu Leu Met		
	50	55	60
Ala Asp Arg Lys Met Gly Cys Leu Pro	Val Ala Leu Ser Leu Leu		
	65	70	75
Ala Thr Phe Gln Ser Ala Val Ala Ile	Leu Gly Gly Pro Ala Glu		
	80	85	90
Ile Tyr Arg Phe Gly Thr Gln Tyr Trp	Phe Leu Gly Cys Ser Tyr		
	95	100	105
Phe Leu Gly Leu Leu Ile Pro Ala His	Ile Phe Ile Pro Val Phe		
	110	115	120
Tyr Arg Leu His Leu Thr Ser Ala Tyr	Glu Tyr Leu Glu Leu Arg		

	125		130		135
Phe Asn Lys Ala	Val Arg Ile Cys Gly	Thr Val Thr Phe Ile	Phe		
	140		145		150
Gln Met Val Val	Tyr Met Gly Val Ala	Leu Tyr Ala Pro Ser	Leu		
	155		160		165
Ala Leu Asn Ala	Val Thr Gly Phe Asp	Leu Trp Leu Ser Val	Leu		
	170		175		180
Ala Leu Gly Ile	Val Cys Asn Ile Tyr	Thr Ala Leu Gly Gly	Leu		
	185		190		195
Lys Ala Val Ile	Trp Thr Asp Val Phe	Gln Thr Leu Ile Met	Phe		
	200		205		210
Leu Gly Gln Leu	Val Val Ile Ile Val	Gly Ala Ala Lys Val	Gly		
	215		220		225
Gly Leu Gly His	Val Trp Ala Val Ala	Ser Gln His Gly Leu	Ile		
	230		235		240
Ser Gly Ile Glu	Leu Asp Pro Asp Pro	Phe Val Arg His Thr	Phe		
	245		250		255
Trp Thr Leu Ala	Phe Gly Gly Val Phe	Met Met Leu Ser Leu	Tyr		
	260		265		270
Gly Val Asn Gln	Ala Gln Val Gln Arg	Tyr Leu Ser Ser His	Ser		
	275		280		285
Glu Lys Ala Ala	Val Leu Ser Cys Tyr	Ala Val Phe Pro Cys	Gln		
	290		295		300
Gln Val Ala Leu	Cys Met Ser Cys Leu	Ile Gly Leu Val Met	Phe		
	305		310		315
Ala Tyr Tyr Lys	Lys Tyr Ser Met Ser	Pro Gln Gln Glu Gln	Ala		
	320		325		330
Ala Pro Asp Gln	Leu Val Leu Tyr Phe	Val Met Asp Leu Leu	Lys		
	335		340		345
Asp Met Pro Gly	Leu Pro Gly Leu Phe	Val Ala Cys Leu Phe	Ser		
	350		355		360
Gly Ser Leu Ser	Thr Ile Ser Ser Ala	Phe Asn Ser Leu Ala	Thr		
	365		370		375
Val Thr Met Glu	Asp Leu Ile Gln Pro	Trp Phe Pro Gln Leu	Thr		
	380		385		390
Glu Thr Arg Ala	Ile Met Leu Ser Arg	Ser Leu Ala Phe Ala	Tyr		
	395		400		405
Gly Leu Val Cys	Leu Gly Met Ala Tyr	Val Ser Ser His Leu	Gly		
	410		415		420
Ser Val Leu Gln	Ala Ala Leu Ser Ile	Phe Gly Met Val Gly	Gly		
	425		430		435
Pro Leu Leu Gly	Leu Phe Cys Leu Gly	Met Phe Phe Pro Cys	Ala		
	440		445		450
Asn Pro Leu Gly	Ala Ile Val Gly Leu	Leu Thr Gly Leu Thr	Met		
	455		460		465
Ala Phe Trp Ile	Gly Ile Gly Ser Ile	Val Ser Arg Met Ser	Ser		
	470		475		480
Ala Ala Ala Ser	Pro Pro Leu Asn Gly	Ser Ser Ser Phe Leu	Pro		
	485		490		495
Ser Asn Leu Thr	Val Ala Thr Val Thr	Thr Leu Met Pro Ser	Thr		
	500		505		510
Leu Ser Lys Pro	Thr Gly Leu Gln Gln	Phe Tyr Ser Leu Ser	Tyr		
	515		520		525
Leu Trp Tyr Ser	Ala His Asn Ser Thr	Thr Val Ile Ala Val	Gly		
	530		535		540


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Leu Ile Val Ser Leu Leu Thr Gly Gly Met Arg Gly Arg Ser Leu
      545                      550                      555
Asn Pro Gly Thr Ile Tyr Pro Val Leu Pro Lys Leu Leu Ala Leu
      560                      565                      570
Leu Pro Leu Ser Cys Gln Lys Arg Leu Cys Trp Arg Ser His Asn
      575                      580                      585
Gln Asp Ile Pro Val Val Thr Asn Leu Phe Pro Glu Lys Met Gly
      590                      595                      600
Asn Gly Ala Leu Gln Asp Ser Arg Asp Lys Glu Arg Met Ala Glu
      605                      610                      615
Asp Gly Leu Val His Gln Pro Cys Ser Pro Thr Tyr Ile Val Gln
      620                      625                      630
Glu Thr Ser Leu

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<210> 38
<211> 507
<212> PRT
<213> Homo sapiens

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<220>
<221> misc_feature
<223> GenBank ID No: g3639058

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<400> 38
Met Ala Gly Ala Gly Pro Lys Arg Arg Ala Leu Ala Ala Pro Ala
  1                      5                      10                      15
Ala Glu Glu Lys Glu Glu Ala Arg Glu Lys Met Leu Ala Ala Lys
      20                      25                      30
Ser Ala Asp Gly Ser Ala Pro Ala Gly Glu Gly Glu Gly Val Thr
      35                      40                      45
Leu Gln Arg Asn Ile Thr Leu Leu Asn Gly Val Ala Ile Ile Val
      50                      55                      60
Gly Thr Ile Ile Gly Ser Gly Ile Phe Val Thr Pro Thr Gly Val
      65                      70                      75
Leu Lys Glu Ala Gly Ser Pro Gly Leu Ala Leu Val Val Trp Ala
      80                      85                      90
Ala Cys Gly Val Phe Ser Ile Val Gly Ala Leu Cys Tyr Ala Glu
      95                      100                     105
Leu Gly Thr Thr Ile Ser Lys Ser Gly Gly Asp Tyr Ala Tyr Met
      110                     115                     120
Leu Glu Val Tyr Gly Ser Leu Pro Ala Phe Leu Lys Leu Trp Ile
      125                     130                     135
Glu Leu Leu Ile Ile Arg Pro Ser Ser Gln Tyr Ile Val Ala Leu
      140                     145                     150
Val Phe Ala Thr Tyr Leu Leu Lys Pro Leu Phe Pro Thr Cys Pro
      155                     160                     165
Val Pro Glu Glu Ala Ala Lys Leu Val Ala Cys Leu Cys Val Leu
      170                     175                     180
Leu Leu Thr Ala Val Asn Cys Tyr Ser Val Lys Ala Ala Thr Arg
      185                     190                     195
Val Gln Asp Ala Phe Ala Ala Ala Lys Leu Leu Ala Leu Ala Leu
      200                     205                     210
Ile Ile Leu Leu Gly Phe Val Gln Ile Gly Lys Gly Asp Val Ser

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	215		220		225
Asn Leu Asp Pro	Lys Phe Ser Phe Glu	Gly Thr Lys Leu Asp	Val		
	230		235		240
Gly Asn Ile Val	Leu Ala Leu Tyr Ser	Gly Leu Phe Ala Tyr	Gly		
	245		250		255
Gly Trp Asn Tyr	Leu Asn Phe Val Thr	Glu Glu Met Ile Asn	Pro		
	260		265		270
Tyr Arg Asn Leu	Pro Leu Ala Ile Ile	Ile Ser Leu Pro Ile	Val		
	275		280		285
Thr Leu Val Tyr	Val Leu Thr Asn Leu	Ala Tyr Phe Thr Thr	Leu		
	290		295		300
Ser Thr Glu Gln	Met Leu Ser Ser Glu	Ala Val Ala Val Asp	Phe		
	305		310		315
Gly Asn Tyr His	Leu Gly Val Met Ser	Trp Ile Ile Pro Val	Phe		
	320		325		330
Val Gly Leu Ser	Cys Phe Gly Ser Val	Asn Gly Ser Leu Phe	Thr		
	335		340		345
Ser Ser Arg Leu	Phe Phe Val Gly Ser	Arg Glu Gly His Leu	Pro		
	350		355		360
Ser Ile Leu Ser	Met Ile His Pro Gln	Leu Leu Thr Pro Val	Pro		
	365		370		375
Ser Leu Val Phe	Thr Cys Val Met Thr	Leu Leu Tyr Ala Phe	Ser		
	380		385		390
Lys Asp Ile Phe	Ser Val Ile Asn Phe	Phe Ser Phe Phe Asn	Trp		
	395		400		405
Leu Cys Val Ala	Leu Ala Ile Ile Gly	Met Ile Trp Leu Arg	His		
	410		415		420
Arg Lys Pro Glu	Leu Glu Arg Pro Ile	Lys Val Asn Leu Ala	Leu		
	425		430		435
Pro Val Phe Phe	Ile Leu Ala Cys Leu	Phe Leu Ile Ala Val	Ser		
	440		445		450
Phe Trp Lys Thr	Pro Val Glu Cys Gly	Ile Gly Phe Thr Ile	Ile		
	455		460		465
Leu Ser Gly Leu	Pro Val Tyr Phe Phe	Gly Val Trp Trp Lys	Asn		
	470		475		480
Lys Pro Lys Trp	Leu Leu Gln Gly Ile	Phe Ser Thr Thr Val	Leu		
	485		490		495
Cys Gln Lys Leu	Met Gln Val Val Pro	Gln Glu Thr			
	500		505		

<210> 39
 <211> 504
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> GenBank ID No: g1840045

<400> 39
 Met Glu Ala Pro Leu Gln Thr Glu Met Val Glu Leu Val Pro Asn
 1 5 10 15
 Gly Lys His Ser Glu Gly Leu Leu Pro Val Ile Thr Pro Met Ala

		20							25					30
Gly	Asn	Gln	Arg	Val	Glu	Asp	Pro	Ala	Arg	Ser	Cys	Met	Glu	Gly
		35							40					45
Lys	Ser	Phe	Leu	Gln	Lys	Ser	Pro	Ser	Lys	Glu	Pro	His	Phe	Thr
		50							55					60
Asp	Phe	Glu	Gly	Lys	Thr	Ser	Phe	Gly	Met	Ser	Val	Phe	Asn	Leu
		65							70					75
Ser	Asn	Ala	Ile	Met	Gly	Ser	Gly	Ile	Leu	Gly	Leu	Ala	Tyr	Ala
		80							85					90
Met	Ala	Asn	Thr	Gly	Ile	Ile	Leu	Phe	Leu	Phe	Leu	Leu	Thr	Ala
		95							100					105
Val	Ala	Leu	Leu	Ser	Ser	Tyr	Ser	Ile	His	Leu	Leu	Leu	Lys	Ser
		110							115					120
Ser	Gly	Val	Val	Gly	Ile	Arg	Ala	Tyr	Glu	Gln	Leu	Gly	Tyr	Arg
		125							130					135
Ala	Phe	Gly	Thr	Pro	Gly	Lys	Leu	Ala	Ala	Ala	Leu	Ala	Ile	Thr
		140							145					150
Leu	Gln	Asn	Ile	Gly	Ala	Met	Ser	Ser	Tyr	Leu	Tyr	Ile	Ile	Lys
		155							160					165
Ser	Glu	Leu	Pro	Leu	Val	Ile	Gln	Thr	Phe	Leu	Asn	Leu	Glu	Glu
		170							175					180
Lys	Thr	Ser	Asp	Trp	Tyr	Met	Asn	Gly	Asn	Tyr	Leu	Val	Ile	Leu
		185							190					195
Val	Ser	Val	Thr	Ile	Ile	Leu	Pro	Leu	Ala	Leu	Met	Arg	Gln	Leu
		200							205					210
Gly	Tyr	Leu	Gly	Tyr	Ser	Ser	Gly	Phe	Ser	Leu	Ser	Cys	Met	Val
		215							220					225
Phe	Phe	Leu	Ile	Ala	Val	Ile	Tyr	Lys	Lys	Phe	His	Val	Pro	Cys
		230							235					240
Pro	Leu	Pro	Pro	Asn	Phe	Asn	Asn	Thr	Thr	Gly	Asn	Phe	Ser	His
		245							250					255
Val	Glu	Ile	Val	Lys	Glu	Lys	Val	Gln	Leu	Gln	Val	Glu	Pro	Glu
		260							265					270
Ala	Ser	Ala	Phe	Cys	Thr	Pro	Ser	Tyr	Phe	Thr	Leu	Asn	Ser	Gln
		275							280					285
Thr	Ala	Tyr	Thr	Ile	Pro	Ile	Met	Ala	Phe	Ala	Phe	Val	Cys	His
		290							295					300
Pro	Glu	Val	Leu	Pro	Ile	Tyr	Thr	Glu	Leu	Lys	Asp	Pro	Ser	Lys
		305							310					315
Lys	Lys	Met	Gln	His	Ile	Ser	Asn	Leu	Ser	Ile	Ala	Val	Met	Tyr
		320							325					330
Ile	Met	Tyr	Phe	Leu	Ala	Ala	Leu	Phe	Gly	Tyr	Leu	Thr	Phe	Tyr
		335							340					345
Asn	Gly	Val	Glu	Ser	Glu	Leu	Leu	His	Thr	Tyr	Ser	Lys	Val	Asp
		350							355					360
Pro	Phe	Asp	Val	Leu	Ile	Leu	Cys	Val	Arg	Val	Ala	Val	Leu	Thr
		365							370					375
Ala	Val	Thr	Leu	Thr	Val	Pro	Ile	Val	Leu	Phe	Pro	Val	Arg	Arg
		380							385					390
Ala	Ile	Gln	Gln	Met	Leu	Phe	Pro	Asn	Gln	Glu	Phe	Ser	Trp	Leu
		395							400					405
Arg	His	Val	Leu	Ile	Ala	Val	Gly	Leu	Leu	Thr	Cys	Ile	Asn	Leu
		410							415					420
Leu	Val	Ile	Phe	Ala	Pro	Asn	Ile	Leu	Gly	Ile	Phe	Gly	Val	Ile
		425							430					435

Gly	Ala	Thr	Ser	Ala	Pro	Phe	Leu	Ile	Phe	Ile	Phe	Pro	Ala	Ile
				440					445					450
Phe	Tyr	Phe	Arg	Ile	Met	Pro	Thr	Glu	Lys	Glu	Pro	Ala	Arg	Ser
				455					460					465
Thr	Pro	Lys	Ile	Leu	Ala	Leu	Cys	Phe	Ala	Met	Leu	Gly	Phe	Leu
				470					475					480
Leu	Met	Thr	Met	Ser	Leu	Ser	Phe	Ile	Ile	Ile	Asp	Trp	Ala	Ser
				485					490					495
Gly	Thr	Ser	Arg	His	Gly	Gly	Asn	His						
				500										

<210> 40
 <211> 393
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> GenBank ID No: g1526438

<400> 40

Met	Ala	Ala	Val	Gly	Ala	Gly	Gly	Ser	Thr	Ala	Ala	Pro	Gly	Pro
1				5					10					15
Gly	Ala	Val	Ser	Ala	Gly	Ala	Leu	Glu	Pro	Gly	Thr	Ala	Ser	Ala
				20					25					30
Ala	His	Arg	Arg	Leu	Lys	Tyr	Ile	Ser	Leu	Ala	Val	Leu	Val	Val
				35					40					45
Gln	Asn	Ala	Ser	Leu	Ile	Leu	Ser	Ile	Arg	Tyr	Ala	Arg	Thr	Leu
				50					55					60
Pro	Gly	Asp	Arg	Phe	Phe	Ala	Thr	Thr	Ala	Val	Val	Met	Ala	Glu
				65					70					75
Val	Leu	Lys	Gly	Leu	Thr	Cys	Leu	Leu	Leu	Leu	Phe	Ala	Gln	Lys
				80					85					90
Arg	Gly	Asn	Val	Lys	His	Leu	Val	Leu	Phe	Leu	His	Glu	Ala	Val
				95					100					105
Leu	Val	Gln	Tyr	Val	Asp	Thr	Leu	Lys	Leu	Ala	Val	Pro	Ser	Leu
				110					115					120
Ile	Tyr	Thr	Leu	Gln	Asn	Asn	Leu	Gln	Tyr	Val	Ala	Ile	Ser	Asn
				125					130					135
Leu	Pro	Ala	Ala	Thr	Phe	Gln	Val	Thr	Tyr	Gln	Leu	Lys	Ile	Leu
				140					145					150
Thr	Thr	Ala	Leu	Phe	Ser	Val	Leu	Met	Leu	Asn	Arg	Ser	Leu	Ser
				155					160					165
Arg	Leu	Gln	Trp	Ala	Ser	Leu	Leu	Leu	Leu	Phe	Thr	Gly	Val	Ala
				170					175					180
Ile	Val	Gln	Ala	Gln	Gln	Ala	Gly	Gly	Gly	Gly	Pro	Arg	Pro	Leu
				185					190					195
Asp	Gln	Asn	Pro	Gly	Ala	Gly	Leu	Ala	Ala	Val	Val	Ala	Ser	Cys
				200					205					210
Leu	Ser	Ser	Gly	Phe	Ala	Gly	Val	Tyr	Phe	Glu	Lys	Ile	Leu	Lys
				215					220					225
Gly	Ser	Ser	Gly	Ser	Val	Trp	Leu	Arg	Asn	Leu	Gln	Leu	Gly	Leu
				230					235					240

Phe Gly Thr Ala	Leu Gly Leu Val Gly	Leu Trp Trp Ala Glu Gly	
	245	250	255
Thr Ala Val Ala	Thr Arg Gly Phe Phe	Phe Gly Tyr Thr Pro Ala	
	260	265	270
Val Trp Gly Val	Val Leu Asn Gln Ala	Phe Gly Gly Leu Leu Val	
	275	280	285
Ala Val Val Val	Lys Tyr Ala Asp Asn	Ile Leu Lys Gly Phe Ala	
	290	295	300
Thr Ser Leu Ser	Ile Val Leu Ser Thr	Val Ala Ser Ile Arg Leu	
	305	310	315
Phe Gly Phe His	Val Asp Pro Leu Phe	Ala Leu Gly Ala Gly Leu	
	320	325	330
Val Ile Gly Ala	Val Tyr Leu Tyr Ser	Leu Pro Arg Gly Ala Ala	
	335	340	345
Lys Ala Ile Ala	Ser Ala Ser Ala Ser	Ala Ser Gly Pro Cys Val	
	350	355	360
His Gln Gln Pro	Pro Gly Gln Pro Pro	Pro Pro Gln Leu Ser Ser	
	365	370	375
His Arg Gly Asp	Leu Ile Thr Glu Pro	Phe Leu Pro Lys Ser Val	
	380	385	390
Leu Val Lys			

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 <211> 893
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> GenBank ID No: g3335175

<400> 41

His Val Gln Asp	Phe Thr Ala Phe Trp Asp	Lys Ala Ser Glu Thr	
1	5	10	15
Pro Thr Leu Gln	Gly Leu Ser Phe Thr Val Arg	Pro Gly Glu Leu	
	20	25	30
Leu Ala Val Val	Gly Pro Val Gly Ala Gly	Lys Ser Ser Leu Leu	
	35	40	45
Ser Ala Val Leu	Gly Glu Leu Ala Pro Ser	His Gly Leu Val Ser	
	50	55	60
Val His Gly Arg	Ile Ala Tyr Val Ser Gln	Gln Pro Trp Val Phe	
	65	70	75
Ser Gly Thr Leu	Arg Ser Asn Ile Leu Phe	Gly Lys Lys Tyr Glu	
	80	85	90
Lys Glu Arg Tyr	Glu Lys Val Ile Lys Ala	Cys Ala Leu Lys Lys	
	95	100	105
Asp Leu Gln Leu	Leu Glu Asp Gly Asp Leu	Thr Val Ile Gly Asp	
	110	115	120
Arg Gly Thr Thr	Leu Ser Gly Gly Gln Lys	Ala Arg Val Asn Leu	
	125	130	135
Ala Arg Ala Val	Tyr Gln Asp Ala Asp Ile	Tyr Leu Leu Asp Asp	
	140	145	150
Pro Leu Ser Ala	Val Asp Ala Glu Val Ser	Arg His Leu Phe Glu	

155	160	165
Leu Cys Ile Cys Gln Ile Leu His Glu Lys Ile Thr Ile Leu Val		
170	175	180
Thr His Gln Leu Gln Tyr Leu Lys Ala Ala Ser Gln Ile Leu Ile		
185	190	195
Leu Lys Asp Gly Lys Met Val Gln Lys Gly Thr Tyr Thr Glu Phe		
200	205	210
Leu Lys Ser Gly Ile Asp Phe Gly Ser Leu Leu Lys Lys Asp Asn		
215	220	225
Glu Glu Ser Glu Gln Pro Pro Val Pro Gly Thr Pro Thr Leu Arg		
230	235	240
Asn Arg Thr Phe Ser Glu Ser Ser Val Trp Ser Gln Gln Ser Ser		
245	250	255
Arg Pro Ser Leu Lys Asp Gly Ala Leu Glu Ser Gln Asp Thr Glu		
260	265	270
Asn Val Pro Val Thr Leu Ser Glu Glu Asn Arg Ser Glu Gly Lys		
275	280	285
Val Gly Phe Gln Ala Tyr Lys Asn Tyr Phe Arg Ala Gly Ala His		
290	295	300
Trp Ile Val Phe Ile Phe Leu Ile Leu Leu Asn Thr Ala Ala Gln		
305	310	315
Val Ala Tyr Val Leu Gln Asp Trp Trp Leu Ser Tyr Trp Ala Asn		
320	325	330
Lys Gln Ser Met Leu Asn Val Thr Val Asn Gly Gly Gly Asn Val		
335	340	345
Thr Glu Lys Leu Asp Leu Asn Trp Tyr Leu Gly Ile Tyr Ser Gly		
350	355	360
Leu Thr Val Ala Thr Val Leu Phe Gly Ile Ala Arg Ser Leu Leu		
365	370	375
Val Phe Tyr Val Leu Val Asn Ser Ser Gln Thr Leu His Asn Lys		
380	385	390
Met Phe Glu Ser Ile Leu Lys Ala Pro Val Leu Phe Phe Asp Arg		
395	400	405
Asn Pro Ile Gly Arg Ile Leu Asn Arg Phe Ser Lys Asp Ile Gly		
410	415	420
His Leu Asp Asp Leu Leu Pro Leu Thr Phe Leu Asp Phe Ile Gln		
425	430	435
Thr Leu Leu Gln Val Val Gly Val Val Ser Val Ala Val Ala Val		
440	445	450
Ile Pro Trp Ile Ala Ile Pro Leu Val Pro Leu Gly Ile Ile Phe		
455	460	465
Ile Phe Leu Arg Arg Tyr Phe Leu Glu Thr Ser Arg Asp Val Lys		
470	475	480
Arg Leu Glu Ser Thr Thr Arg Ser Pro Val Phe Ser His Leu Ser		
485	490	495
Ser Ser Leu Gln Gly Leu Trp Thr Ile Arg Ala Tyr Lys Ala Glu		
500	505	510
Glu Arg Cys Gln Glu Leu Phe Asp Ala His Gln Asp Leu His Ser		
515	520	525
Glu Ala Trp Phe Leu Phe Leu Thr Thr Ser Arg Trp Phe Ala Val		
530	535	540
Arg Leu Asp Ala Ile Cys Ala Met Phe Val Ile Ile Val Ala Phe		
545	550	555
Gly Ser Leu Ile Leu Ala Lys Thr Leu Asp Ala Gly Gln Val Gly		
560	565	570

Leu	Ala	Leu	Ser	Tyr	Ala	Leu	Thr	Leu	Met	Gly	Met	Phe	Gln	Trp
				575					580					585
Cys	Val	Arg	Gln	Ser	Ala	Glu	Val	Glu	Asn	Met	Met	Ile	Ser	Val
				590					595					600
Glu	Arg	Val	Ile	Glu	Tyr	Thr	Asp	Leu	Glu	Lys	Glu	Ala	Pro	Trp
				605					610					615
Glu	Tyr	Gln	Lys	Arg	Pro	Pro	Pro	Ala	Trp	Pro	His	Glu	Gly	Val
				620					625					630
Ile	Ile	Phe	Asp	Asn	Val	Asn	Phe	Met	Tyr	Ser	Pro	Gly	Gly	Pro
				635					640					645
Leu	Val	Leu	Lys	His	Leu	Thr	Ala	Leu	Ile	Lys	Ser	Gln	Glu	Lys
				650					655					660
Val	Gly	Ile	Val	Gly	Arg	Thr	Gly	Ala	Gly	Lys	Ser	Ser	Leu	Ile
				665					670					675
Ser	Ala	Leu	Phe	Arg	Leu	Ser	Glu	Pro	Glu	Gly	Lys	Ile	Trp	Ile
				680					685					690
Asp	Lys	Ile	Leu	Thr	Thr	Glu	Ile	Gly	Leu	His	Asp	Leu	Arg	Lys
				695					700					705
Lys	Met	Ser	Ile	Ile	Pro	Gln	Glu	Pro	Val	Leu	Phe	Thr	Gly	Thr
				710					715					720
Met	Arg	Lys	Asn	Leu	Asp	Pro	Phe	Lys	Glu	His	Thr	Asp	Glu	Glu
				725					730					735
Leu	Trp	Asn	Ala	Leu	Gln	Glu	Val	Gln	Leu	Lys	Glu	Thr	Ile	Glu
				740					745					750
Asp	Leu	Pro	Gly	Lys	Met	Asp	Thr	Glu	Leu	Ala	Glu	Ser	Gly	Ser
				755					760					765
Asn	Phe	Ser	Val	Gly	Gln	Arg	Gln	Leu	Val	Cys	Leu	Ala	Arg	Ala
				770					775					780
Ile	Leu	Arg	Lys	Asn	Gln	Ile	Leu	Ile	Ile	Asp	Glu	Ala	Thr	Ala
				785					790					795
Asn	Val	Asp	Pro	Arg	Thr	Asp	Glu	Leu	Ile	Gln	Lys	Lys	Ile	Arg
				800					805					810
Glu	Lys	Phe	Ala	His	Cys	Thr	Val	Leu	Thr	Ile	Ala	His	Arg	Leu
				815					820					825
Asn	Thr	Ile	Ile	Asp	Ser	Asp	Lys	Ile	Met	Val	Leu	Asp	Ser	Gly
				830					835					840
Arg	Leu	Lys	Glu	Tyr	Asp	Glu	Pro	Tyr	Val	Leu	Leu	Gln	Asn	Lys
				845					850					855
Glu	Ser	Leu	Phe	Tyr	Lys	Met	Val	Gln	Gln	Leu	Gly	Lys	Ala	Glu
				860					865					870
Ala	Ala	Ala	Leu	Thr	Glu	Thr	Ala	Lys	Gln	Val	Ile	Leu	Gln	Lys
				875					880					885
Lys	Leu	Ser	Thr	Tyr	Trp	Ser	His							
				890										

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<211> 453

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> GenBank ID No: g1279457

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Met	Ala	Leu	Arg	Gly	Phe	Cys	Ser	Arg	Trp	Leu	Arg	Pro	Ala	Leu	1	5	10	15
Ala	Ile	Gly	Leu	Phe	Ala	Ser	Met	Ala	Ala	Val	Leu	Leu	Gly	Gly	20	25	30	
Ala	Arg	Ala	Ser	Arg	Leu	Leu	Phe	Gln	Arg	Leu	Leu	Trp	Asp	Val	35	40	45	
Val	Arg	Ser	Pro	Ile	Ser	Phe	Phe	Glu	Arg	Thr	Pro	Ile	Gly	His	50	55	60	
Leu	Leu	Asn	Arg	Phe	Ser	Lys	Glu	Thr	Asp	Thr	Val	Asp	Val	Asp	65	70	75	
Ile	Pro	Asp	Lys	Leu	Arg	Ser	Leu	Leu	Met	Tyr	Ala	Phe	Gly	Leu	80	85	90	
Leu	Glu	Val	Ser	Leu	Val	Val	Glu	Trp	Pro	Thr	Pro	Leu	Pro	Leu	95	100	105	
Trp	Pro	Ser	Cys	His	Cys	Phe	Ser	Ser	Thr	Leu	Gly	Phe	Arg	Trp	110	115	120	
Leu	Ala	Ala	Asn	Val	Glu	Leu	Leu	Gly	Asn	Gly	Leu	Val	Phe	Ala	125	130	135	
Ala	Ala	Thr	Cys	Ala	Val	Leu	Ser	Lys	Ala	His	Leu	Ser	Ala	Gly	140	145	150	
Leu	Val	Gly	Phe	Ser	Val	Ser	Ala	Ala	Leu	Gln	Val	Thr	Gln	Thr	155	160	165	
Leu	Gln	Trp	Val	Val	Arg	Asn	Trp	Thr	Asp	Leu	Glu	Asn	Ser	Ile	170	175	180	
Val	Ser	Val	Glu	Arg	Met	Gln	Asp	Tyr	Ala	Trp	Thr	Pro	Lys	Glu	185	190	195	
Ala	Pro	Trp	Arg	Leu	Pro	Thr	Cys	Ala	Ala	Gln	Pro	Pro	Trp	Pro	200	205	210	
Gln	Gly	Gly	Gln	Ile	Glu	Phe	Arg	Asp	Phe	Gly	Leu	Arg	Tyr	Arg	215	220	225	
Pro	Glu	Leu	Pro	Leu	Ala	Val	Gln	Gly	Val	Ser	Phe	Lys	Ile	His	230	235	240	
Ala	Gly	Glu	Lys	Val	Gly	Ile	Val	Gly	Arg	Thr	Gly	Ala	Gly	Lys	245	250	255	
Ser	Ser	Leu	Ala	Ser	Gly	Leu	Leu	Arg	Leu	Gln	Glu	Ala	Ala	Glu	260	265	270	
Gly	Gly	Ile	Trp	Ile	Asp	Gly	Val	Pro	Ile	Ala	His	Val	Gly	Val	275	280	285	
His	Thr	Leu	Arg	Ser	Arg	Ile	Ser	Ile	Ile	Pro	Gln	Asp	Pro	Ile	290	295	300	
Leu	Phe	Pro	Gly	Ser	Leu	Arg	Met	Asn	Leu	Asp	Leu	Leu	Gln	Glu	305	310	315	
His	Ser	Asp	Glu	Ala	Ile	Trp	Ala	Ala	Leu	Glu	Thr	Val	Gln	Leu	320	325	330	
Lys	Ala	Leu	Val	Ala	Cys	Leu	Pro	Gly	Gln	Leu	Gln	Tyr	Lys	Cys	335	340	345	
Ala	Asp	Arg	Gly	Glu	Asp	Leu	Ser	Val	Gly	Gln	Lys	Gln	Leu	Leu	350	355	360	
Cys	Leu	Ala	Arg	Ala	Leu	Leu	Arg	Lys	Thr	Gln	Ile	Leu	Ile	Leu	365	370	375	
Asp	Glu	Ala	Thr	Ala	Ala	Val	Asp	Pro	Gly	Thr	Glu	Leu	Gln	Met	380	385	390	
Gln	Ala	Met	Leu	Gly	Ser	Trp	Phe	Ala	Gln	Cys	Thr	Val	Leu	Leu	395	400	405	

Ile	Ala	His	Arg	Leu	Arg	Ser	Val	Met	Asp	Cys	Ala	Arg	Val	Leu
				410					415					420
Val	Met	Asp	Lys	Gly	Gln	Val	Ala	Glu	Ser	Gly	Ser	Pro	Ala	Gln
				425					430					435
Leu	Leu	Ala	Gln	Lys	Gly	Leu	Phe	Tyr	Arg	Leu	Ala	Gln	Glu	Ser
				440					445					450
Gly	Leu	Val												